

NATIONAL ACCIDENT SAMPLING SYSTEM (NASS)

Analytical User's Manual

1983 File



U.S. Department of Transportation  
National Highway Traffic Safety Administration  
National Center for Statistics and Analysis  
Washington, D.C. 20590

## TABLE OF CONTENTS

| SECTION  |   | PAGE |
|----------|---|------|
| 1        | INTRODUCTION                              | 1    |
| 2        | THE SAMPLING SYSTEM AND SAMPLE DESIGN     | 3    |
| 3        | DERIVED VARIABLES                         | 8    |
| 4        | SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS | 17   |
| 5        | SAS FILE                                  | 24   |
| APPENDIX |   |      |
| A        | DATA COLLECTION FORMS                     | 37   |
| B        | MAKE AND MODEL CODES                      | 99   |
| C        | FILE ADJUSTMENTS                          | 101  |
| D        | CDC/TDC                                   | 103  |
| E        | SELECTED COUNTS                           | 108  |

## SECTION 1

### INTRODUCTION

The National Accident Sampling System (NASS) is a continuous nationwide accident data collection program sponsored by the U.S. Department of Transportation. It is operated by the National Center for Statistics and Analysis (NCSA) of the National Highway Traffic Safety Administration (NHTSA).

NASS was developed to provide an automated, comprehensive national traffic accident data base. Data collection began in 1979 in 10 geographic sites, called Primary Sampling Units (PSU's). The 1983 NASS file contains data for a full year from 50 sites, which are monitored by 4 Zone (Quality Control) Centers. These data are weighted to represent all police reported motor vehicle accidents occurring in the USA during the year.

Some data element definitions have been revised over the years to meet changing analytical requirements. Care should be exercised to assure consistent definitions if this 1983 file is to be used in conjunction with NASS files from prior years.

The 1983 NASS file is available in two automated formats: either as a sequential data set, or as a Statistical Analysis System (SAS) data set. Hardcopy data collection records, sanitized to protect privacy, are also available for review. These records contain photographic slides, scene diagrams, and vehicle diagrams.

This Manual and the NASS Data Collection, Coding and Editing Manual - 1983 Continuous Sampling System are the primary documentation supporting the automated files. In addition, the user may find the following documents helpful:

Injury Coding Manual 1983 (Revised Edition)

CRASH3 User's Guide and Technical Manual (DOT-HS-805-732)

National Accident Sampling System Sample Design, Phases 2 and 3 (DOT-HS-805-273,274,275)

Collision Deformation Classification (SAE J224 MAR 80)

Truck Deformation Classification (SAE J1301)

The first document is available from the DOT/Transportation Systems Center (DTS-32), Kendall Square, Cambridge, Massachusetts 02142. The next two documents are available through the National Technical Information Service (NTIS) Springfield, Virginia 22161; the last two are available from the Society of Automotive Engineers (SAE), Warrendale, Pennsylvania 15096.

Comments on the content and utility of the files and primary documentation are appreciated. Please address them to the National Center for Statistics and Analysis - NRD-30, National Highway Traffic Safety Administration, U.S. Department of Transportation, 400 Seventh St., S.W., Washington, D.C. 20590.

## SECTION 2

### THE SAMPLING SYSTEM AND SAMPLE DESIGN

The accidents investigated in NASS are a probability sample of all police-reported accidents in the U.S. A NASS accident must fulfill the following requirements: must be police-reported, must involve a harmful event (property damage and/or personal injury) resulting from an accident, and must involve a motor vehicle in transport on a trafficway. Every accident which meets these conditions has a chance of being selected. This type of sample design makes it possible to compute estimates which are representative of the entire country.

The selection of sample accidents in NASS is accomplished in three stages: (1) selection of PSU's, (2) selection of police jurisdictions, and (3) selection of accidents.

#### Stage 1 - Select PSU's

For the first stage of selection, the country is divided into 1279 geographic areas called Primary Sampling Units (PSU's). Each PSU consists either of a large city, a county, a group of contiguous counties, a central city or the balance of a county which is not part of a central city. The PSU's were defined so that their minimum population was approximately 50,000.

The 1,279 PSU's were grouped into 75 strata based on geographic region, percent of urban population, per capita service station sales, and per capita road miles. The strata were formed to be about equal in population; however, five PSU's had total population approaching or exceeding that of some strata. These were identified as self-representing and included in the sample with certainty. From each of the remaining 70 strata, containing at least two PSU's, one PSU was selected randomly with probability proportional to its 1977 population. The 75 selected sample PSU's are the first stage in the selection of NASS sample accidents and the inverse of the probability of selecting the PSU is the first stage expansion factor for all accidents in that PSU.

The NASS PSU sample also was designed to be implemented in stages: that is, not all 75 PSU's became operational at once. Three probability subsamples of the selected PSU's which would provide valid estimates during a period of

staged implementation were defined. The stages provided for growth from an original 10 PSU's, to 30 PSU's, to 50 PSU's, and finally to 75 PSU's.

### Stage 2 - Select Police Jurisdictions

If every accident in each PSU were investigated, a national estimate could be obtained by weighting each accident by the inverse of the probability of selecting the PSU. Because it is uneconomical and impractical to investigate every accident in each sample PSU, a second and third stage of sampling are performed. Each PSU contains a number of police jurisdictions which process reports of accidents that occur within the PSU's boundaries. These police jurisdictions form the frame of the second stage of sampling. Each jurisdiction is assigned a measure of size based on the number, severity, and type of its accidents. A sample of jurisdictions is selected which oversamples those having a larger measure of size.

### Stage 3 - Select Accidents

The final stage of sampling is the selection of accidents within the sampled jurisdictions. A simple random sample would produce a large percentage of accidents with minor property damage and little or no injury because these types of accidents constitute the largest fraction of the accident population. A sample with a large percentage of such accidents would not be effective in providing detailed and accurate information to help mitigate serious accident consequences. For this reason, a substantial sample of serious injury accidents is required for NASS.

Unequal probability selection is used to capture the desired sample sizes by accident type and severity. Each listed accident is categorized by: (1) the most severe injury level reported (fatal, incapacitating, nonincapacitating, no injury); (2) disposition of accident victims (i.e., transported to a medical facility or not); (3) vehicle type (motorcycle, light truck or van, medium or heavy truck, etc.), or involvement of a non-motorist, and; (4) towing required or not. A differential probability of selection is assigned to each category so that high severity and rare vehicle type accidents (non-motorist, motorcycle, truck) are oversampled relative to their proportion in the frame. Table 2.1 shows the accident stratification used in NASS. For example an accident involving a light truck or van whose driver was killed and a motorcycle whose driver was uninjured would be classified as ACCIDENT TYPE E.

## Accident Strata Classification

Based on Pedestrian/Vehicle Type Involvement and Injury Severity

| ACCIDENT TYPE          |            | Most Severe Police Reported Injury |   |              |                 |
|------------------------|------------|------------------------------------|---|--------------|-----------------|
|                        |            | K                                  | A | B, C, O or U |                 |
|                        |            |                                    |   | TRANS-PORTED | NONTRANS-PORTED |
| Ped or Nonmotorist     |            | A                                  | B | C            | D               |
| Motorcycle             |            | E                                  | F | G            | H               |
| Medium or Heavy Truck  |            | J                                  | K | L            | M               |
| Light Truck<br>or Van  | TOWAWAY    | N                                  | P | Q            | R               |
|                        | NONTOWAWAY | N                                  | P | Y            | Y               |
| Other Motor<br>Vehicle | TOWAWAY    | S                                  | T | V            | W               |
|                        | NONTOWAWAY | S                                  | T | Z            | Z               |

TABLE 2.1

Other factors also affect the selection probabilities at this stage. For example, some PSU's may select from only even-numbered cases and some jurisdictions within a PSU are visited on a rotating schedule.

### Selection of Accidents for Investigation

Every few days the selected police jurisdictions are contacted and all accidents reported since the previous contact day are listed. The accidents to be investigated by NASS are selected from these lists. Each accident listed is assigned a weight equal to the product of the differential weight for the stratum in which it has been classified and the inverse of the probability of selecting that police jurisdiction. Then, after arraying all accidents by accident stratum and police jurisdiction, a systematic sample of accidents is selected with probability proportional to the assigned weight.

While the more serious types of accidents are sampled every contact day, the small number of minor injury, non-towaway accidents are selected only on periodic contact days, with the period between these contact days fixed for each PSU.

## Sampling weights

Because the accidents selected in NASS are a probability sample of all accidents occurring in the survey year, the data from these accidents can be weighted to produce either PSU or National Estimates. The weights or Inflation Factors result from the stages of selection, reflecting that accident's probability of selection. There are three weights on this analysis file.

### PSU Inflation Factor

The PSU Inflation Factor is the within PSU sampling weight for each accident in that PSU's sample and is equal to the inverse of that accident's probability of selection within the PSU. It is equal to the product of the inverse of the probability of selecting that accident from the other accidents in the same accident stratum and police jurisdiction on the day it was selected (Stage 3) and the inverse of the probability of selecting the Police Jurisdiction in which the accident occurred from among all police jurisdictions listed in the PSU (Stage 2).

The sum of the PSU Inflation Factors for all accidents sampled within a PSU is an unbiased estimate of the number of accidents which occurred during the year in that PSU. If restricted to an accident stratum, the sum is an estimate of the number of that type of accident which occurred in that PSU. Unbiased estimates of accident characteristics for a PSU can be obtained by multiplying the value of the characteristic for each accident sampled in the PSU by that accident's PSU Inflation Factor and summing.

### National Inflation Factor

The National Inflation Factor is the overall sampling weight for each accident selected in the NASS Sample and the inverse of the probability of selection of that accident. It is equal to the product of the PSU Inflation Factor and the inverse of the probability of selection of the PSU (Stage 1).

The sum of the National Inflation Factors for all sampled NASS accidents in a year is an unbiased estimate of the total number of accidents which occurred during the year in the U.S. If restricted to an accident stratum, the sum is an estimate of the total number of that type of accident which occurred in that year. Unbiased estimates of National totals of accident characteristics can be obtained by multiplying the value of the characteristic for each accident in the NASS sample by the National Inflation Factor for that accident.

#### Ratio Inflation Factor

The Ratio Inflation Factor is the product of the National Inflation Factor and a ratio which adjusts for differences between actual and estimated totals. This ratio is calculated using accident totals for both sampled and nonsampled police jurisdictions. The totals for the sampled jurisdictions come from the Stage 3 frame; the totals for the nonsampled jurisdictions are collected periodically. The PSU's are grouped into predetermined sets. Ratios are formed by dividing the total accidents in each accident strata and in each set of PSU's by the estimated total. These estimated totals are sums of the PSU Inflation Factors for each accident in the accident strata and set of PSU's. In some cases, a small sample in an accident strata may produce an unstable ratio. In these situations accident strata may be combined prior to producing a single ratio.

Estimates of National totals for accident characteristics can be obtained using the Ratio Inflation Factors as they were obtained using the National Inflation Factors. However, because the Ratio Inflation Factors have been adjusted to actual accident counts, some of the sampling variation has been removed. Therefore, they will produce more precise estimates than the National Inflation Factors.

## SECTION 3

### DERIVED VARIABLES

Most of the data presented in the NASS record layout can be identified easily as coming from accident investigation and other activities of NASS field teams. Twenty-five data elements, however, are by-products of sampling procedures used by NASS or are derived from data processing applications, such as totaling the number of injured persons in a given accident. The following list identifies the specific data elements, gives their location in the Sequential File Record Layout, and explains their derivation:

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

PSU INFLATION FACTOR  
(A77-84)

This eight character numeric value has three implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.

NATIONAL INFLATION FACTOR  
(A85-92)

This eight character numeric value has three implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.

RATIO INFLATION FACTOR  
(A93-100)

This eight character numeric value has three implied decimal places. Its purpose and derivation are described in Section 2 of this Manual.

MAXIMUM TREATMENT  
(A101)

This single character numeric value indicates the most intensive treatment given to any occupant, pedestrian or other non-motorist in the accident, using the following order of codes:

- 1 FATAL
- 3 HOSPITALIZATION
- 4 TREATED AND RELEASED
- 5 TREATMENT - OTHER
- 2 FATAL - RULED DISEASE
- 9 UNKNOWN
- 6 NO TREATMENT

This variable is derived by scanning the TREATMENT - MORTALITY variable in each occupant record and each pedestrian/non-motorist record in the accident.

MAXIMUM KNOWN A. I. S.  
(A102)

This single character numeric value indicates the single most severe injury level reported for any occupant, pedestrian or other non-motorist in the accident, using the following order of codes:

- 6 MAXIMUM (UNTREATABLE) INJURY
- 5 CRITICAL INJURY
- 4 SERIOUS INJURY
- 3 SEVERE INJURY
- 2 MODERATE INJURY
- 1 MINOR INJURY
- 7 INJURY, UNKNOWN SEVERITY
- 9 UNKNOWN IF INJURED
- 0 NOT INJURED

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

ALCOHOL INVOLVED  
(A103)

This single character numeric value indicates if any involved driver, pedestrian or other non-motorist were reported to have had some alcohol involvement at the time of the accident, using the following codes:

- 1 YES
- 2 NO
- 9 UNKNOWN

This variable is derived by scanning the POLICE REPORTED ALCOHOL PRESENCE and ALCOHOL TEST RESULTS variables on the driver and pedestrian/non-motorist form and the TRAFFIC VIOLATION CHARGED-DWI on the driver form. The ALCOHOL INVOLVED codes are derived as follows:

- (YES) 1 - If POLICE REPORTED ALCOHOL PRESENCE equals 1 (YES) or ALCOHOL TEST RESULTS equal 01-94 (positive result) or TRAFFIC VIOLATION CHARGED-DWI equals 1.
- (NO) 2 - If POLICE REPORTED ALCOHOL PRESENCE equals 0 (NO) and ALCOHOL TEST RESULT equals 00 (NONE) or 96 (NONE GIVEN) and TRAFFIC VIOLATION CHARGED-DWI equals 0.
- (UNKNOWN) 9 - IF

| POLICE REPORTED ALCOHOL PRESENCE EQUALS | AND | ALCOHOL TEST RESULTS EQUALS | AND | TRAFFIC VIOLATION CHARGED - DWI EQUALS |
|---|-----|-----------------------------|-----|--|
| 0                                       |     | 95, 97, 99                  |     | 0, 9                                   |
| 8, 9                                    |     | 00, 95, 96, 97, 99          |     | 0, 9                                   |
| 0                                       |     | 00, 96                      |     | 9                                      |

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

NUMBER OF SERIOUSLY INJURED  
PERSONS  
(A104-105)

This two character numeric value indicates the total number of fatally and other seriously injured individuals involved in the accident. It is derived by totaling the number of pedestrian/non-motorist and occupant records in which either the TREATMENT - MORTALITY value is coded "1" (Fatal) or the A.I.S. SEVERITY value is coded "3-6".

NUMBER OF INJURED PERSONS  
(A106-107)

This two character numeric value indicates the total number of injured individuals in the accident. It is derived by totaling the number of pedestrian/nonmotorist and occupant records in which either the TREATMENT-MORTALITY value is coded "1" (fatal) or the A.I.S. SEVERITY value is coded "1-7".

DAY OF WEEK  
(A108-109)

To protect the confidentiality of records concerning specific accidents used by NASS, the accident date is not provided. Instead, the accident record indicates year, month, and DAY OF WEEK of accident occurrence. DAY OF WEEK values are coded as follows:

|    |           |    |          |
|----|-----------|----|----------|
| 01 | Sunday    | 05 | Thursday |
| 02 | Monday    | 06 | Friday   |
| 03 | Tuesday   | 07 | Saturday |
| 04 | Wednesday | 08 | Unknown  |

SOURCE DOCUMENTS ONLY  
(A110)

This one character numeric value indicates whether the case included a full investigation or was restricted to (official) source documents only. SOURCE DOCUMENTS ONLY values are coded as follows:  
0 Full Investigation  
1 Source Documents Only

This variable is derived by scanning a table consisting of PSU and accident case numbers.

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

MAXIMUM KNOWN PEDESTRIAN A. I. S.  
(P59)

This single character numeric value indicates the single most severe injury level reported for this pedestrian or other non-motorist in the accident. Order of coding is the same as for the accident variable MAXIMUM KNOWN A. I. S. (A102).

PEDESTRIAN I. S. S.  
(P100-101)

This two character numeric value provides an index score indicating the relative severity of overall injury to the individual pedestrian. It is derived by adding the squares of the highest A. I. S. SEVERITY entries in each of the three most severe injured body regions.  
For example:

A Pedestrian suffered severe injury (A. I. S.=3) to the legs (Body Region 5), moderate injury (A. I. S.=2) to the pelvic area (Body Region 4), and moderate to minor injuries elsewhere (A. I. S.=2). The resulting I. S. S. is the sum of the squares of these three A. I. S. Severity scores:  
 $(3**2)+(2**2)+(2**2)$  or 17.

VIN LENGTH  
(V170-171)

This two character numeric value indicates the number of characters in the Vehicle Identification Number (VIN) as originally recorded. 99 denotes unknown.

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

VEHICLE SHORT FORM  
(V172)

When no vehicle in an accident has suffered sufficient damage to require towing from the accident scene and there are no serious injuries e.g., accident types 'Y' or 'Z', investigators use an abbreviated version of the data collection form for the Vehicle level records. This one character numeric value indicates the use or nonuse of this "Vehicle Short Form" as follows:

- 0 NO [full-length form used]
- 1 YES [Vehicle Short Form used]

If the case includes a special study, a full length vehicle form is completed.

NUMBER SERIOUSLY INJURED  
IN THIS VEHICLE  
(V173-174)

This two character numeric value indicates the total number of fatally and other seriously injured occupants of the vehicle. It is derived by totaling the number of occupant records for the vehicle in which either the TREATMENT-MORTALITY value is coded "1" (fatal) or the A.I.S. SEVERITY value is coded "3-6".

NUMBER INJURED  
IN THIS VEHICLE  
(V175-176)

This two character numeric value indicates the total number of injured occupants of the vehicle. It is derived by totaling the number of occupant records for the vehicle in which either the TREATMENT-MORTALITY value is coded "1" (fatal) or the A.I.S. SEVERITY value is coded "1-7".

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

WHEELBASE SHORT  
(V177-180)

WHEELBASE LONG  
(V181-184)

These four character numeric values with one implied decimal indicate the shortest and longest number of inches between a passenger car's axles for a given make, model and model year. 9999 denotes unknown. These variables are derived from the VIN using the VINA program.

NOTE: If a model has only one length value, it will be coded in the WHEELBASE SHORT variable and the WHEELBASE LONG variable will be coded "UNKNOWN".

FRONT/REAR WHEEL DRIVE  
(V185)

This single character numeric value indicates which wheels of a passenger car are powered. Values are coded as follows:

- 1 REAR WHEEL DRIVE
- 2 FRONT WHEEL DRIVE
- 8 NOT APPLICABLE, NOT A PASSENGER CAR
- 9 UNKNOWN

This variable is derived by scanning a coded table consisting of vehicle make, vehicle model and vehicle model year, to which a "drive" code has been appended.

MAXIMUM TREATMENT  
IN THIS VEHICLE  
(V186)

This single character numeric value indicates the most intensive treatment given to an occupant in this vehicle. Order of coding is the same as for the accident variable MAXIMUM TREATMENT (A101).

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

WEIGHT OF  
THE OTHER VEHICLE  
(V187-189)

This three character numeric value indicates the weight (in pounds) of the other vehicle, if the most severe impact is with another vehicle. Values are coded as follows:

- 001 LESS THAN 150 POUNDS
- 002 - 996 150-99,649 POUNDS
- 997 99,650 OR MORE
- 998 NOT APPLICABLE (MOST SEVERE IMPACT NOT WITH ANOTHER VEHICLE OR WITH VEHICLE HITTING ITSELF)
- 999 UNKNOWN

This variable is derived from the VEHICLE CURB WEIGHT as coded for the other vehicle.

BODY TYPE OF  
THE OTHER VEHICLE  
(V190-191)

This two character numeric value indicates the body type of the other vehicle if the most severe impact is with another vehicle. If not, the value is coded as follows:

- 98 - NOT APPLICABLE (Most severe impact not with another vehicle or with vehicle hitting itself).

This variable is derived from the BODY TYPE as coded for the other vehicle.

MAXIMUM KNOWN  
A.I.S. in this  
Vehicle  
(V192)

This single character numeric value indicates the most severe injury level reported for an occupant in this vehicle. Order of codes is the same as for the accident variable MAXIMUM KNOWN AIS (A102).

MAXIMUM KNOWN  
OCCUPANT A. I. S.  
(098)

This single character numeric value indicates the most severe injury level reported for this occupant. Order of codes is the same as for the accident variable MAXIMUM KNOWN A. I. S. (A102).

VARIABLE NAME AND LOCATION  
=====

DESCRIPTION  
=====

OCCUPANT I.S.S.  
(C99-100)

This two character numeric value provides an index score indicating the relative severity of overall injury to the individual vehicle occupant. It is derived identically to PEDESTRIAN I.S.S., using data from the Occupant level record.

SECTION 4  
SEQUENTIAL ANALYTICAL FILE RECORD LAYOUTS

|                      |  |                       |
|----------------------|--|-----------------------|
| 1<br>2               | PSU NUMBER   | IDENTIFICATION        |
| 3<br>4<br>5<br>6     | CASE NUMBER  |                       |
| 7                    | RECORD NUMBER  |                       |
| 8                    | ////////////////////////////////////   |                       |
| 9                    | VERSION NUMBER   |                       |
| 10                   | ////////////////////////////////////   |                       |
| 11<br>12             | MONTH OF ACCIDENT  |                       |
| 13<br>14             | ////////////////////////////////////<br>//////////////////////////////////// |                       |
| 15<br>16             | YEAR OF ACCIDENT   |                       |
| 17                   | FINAL STRATIFICATION   |                       |
| 18<br>19             | ////////////////////////////////////<br>//////////////////////////////////// |                       |
| 20<br>21             | ////////////////////////////////////<br>//////////////////////////////////// |                       |
| 22                   | ////////////////////////////////////   |                       |
| 23<br>24             | FIRST HARMFUL EVENT  |                       |
| 25                   | MANNER OF COLLISION  |                       |
| 26                   | RELATION TO ROADWAY  |                       |
| 27<br>28             | NUMBER OF VEHICLE FORMS<br>SUBMITTED   |                       |
| 29<br>30             | NOL. OF PEDESTRIAN & NON-<br>MOTORIST FORMS SUBMITTED                        |                       |
| 31                   | PAR SEVERITY   |                       |
| 32                   | HIT AND RUN INVOLVEMENT  |                       |
| 33<br>34<br>35<br>36 | TIME OF DAY<br>OF ACCIDENT   | AMBIENT<br>CONDITIONS |
| 37                   | LIGHT CONDITIONS   |                       |
| 38                   | ATMOSPHERIC CONDITIONS   |                       |

|          |                            |                         |
|----------|----------------------------|-------------------------|
| 39       | LAND USE (URBAN/RURAL)     | ADMINISTRATIVE<br>ITEMS |
| 40       | FEDERAL AID SYSTEM         |                         |
| 41       | CLASS TRAFFICWAY           |                         |
| 42       | ROADWAY FUNCTION CLASS     |                         |
| 43<br>44 | RELATION TO JUNCTION       |                         |
| 45       | SCHOOL BUS RELATED         |                         |
| 46       | RIGHT OR LEFT TURN ON RED  |                         |
| 47       | NUMBER OF TRAVEL LANES     |                         |
| 48       | MEDIAN TYPE                |                         |
| 49<br>50 | MEDIAN WIDTH               |                         |
| 51       | ACCESS CONTROL             | ENVIRONMENTAL<br>DATA   |
| 52       | TRAFFICWAY FLOW            |                         |
| 53       | INTERCHANGE GEOMETRY       |                         |
| 54       | SHOULDER PRESENCE          |                         |
| 55       | ROADWAY ALIGNMENT          |                         |
| 56       | ROADWAY PROFILE            |                         |
| 57       | ROADWAY SURFACE TYPE       |                         |
| 58       | ROADWAY SURFACE CONDITION  |                         |
| 59<br>60 | TRAFFIC CONTROL DEVICE     |                         |
| 61       | TRAF. CNTRL. FUNCTION      |                         |
| 62       | SCHOOL ZONE                |                         |
| 63<br>64 | SPEED LIMIT                |                         |
| 65       | RESTR. TO ROADWAY AT SCENE |                         |
| 66       | ADDITIONAL RESTR. AT SCENE |                         |

|                             |  |                   |                   |
|-----------------------------|--|-------------------|-------------------|
| 67                          | ////////////////////////////////////   | SPECIAL STUDIES   |                   |
| 68                          | POLE SPECIAL STUDY   |                   |                   |
| 69                          | LONGITUDINAL BARRIER   |                   |                   |
| 70                          | CRASH CUSHION SPEC. STUDY  |                   |                   |
| 71                          | ////////////////////////////////////   |                   |                   |
| 72                          | HONDA SPECIAL STUDY  |                   |                   |
| 73<br>74<br>75<br>76        | ////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>//////////////////////////////////// | INFLATION FACTORS |                   |
| 77<br>78<br>79<br>80        | PSU INFLATION FACTOR   |                   |                   |
| 81<br>82<br>83<br>84        |  |                   |                   |
| 85<br>86<br>87<br>88        | NATIONAL INFLATION FACTOR  |                   |                   |
| 89<br>90<br>91<br>92        |  |                   |                   |
| 93<br>94<br>95              | RATIO<br>INFLATION FACTOR  |                   |                   |
| 96<br>97<br>98<br>99<br>100 |  |                   |                   |
| 101                         | MAXIMUM TREATMENT  |                   | DERIVED VARIABLES |
| 102                         | MAXIMUM KNOWN AIS  |                   |                   |
| 103                         | ALCOHOL INVOLVEMENT  |                   |                   |
| 104<br>105                  | NUMBER OF SERIOUSLY<br>INJURED PERSONS   |                   |                   |
| 106<br>107                  | NUMBER OF INJURED PERSON   |                   |                   |
| 108<br>109                  | DAY OF WEEK OF ACCIDENT  |                   |                   |
| 110                         | SOURCE DOCUMENTS ONLY  |                   |                   |



|    |                                      |                |                |
|----|--------------------------------------|----------------|----------------|
| 1  | FILE NUMBER                          | IDENTIFICATION |                |
| 2  | CASE NUMBER-STRATIFICATION           |                |                |
| 7  | RECORD NUMBER                        |                |                |
| 8  | //////////////////////////////////// |                |                |
| 9  | VERSION NUMBER                       |                |                |
| 10 | //////////////////////////////////// |                |                |
| 11 | VEHICLE NUMBER                       |                |                |
| 13 | NUMBER OF OCCUPANT FORMS             |                |                |
| 14 | SUBMITTED                            |                |                |
| 15 | VEHICLE ROLE                         |                |                |
| 16 | MANNER OF LEAVING SCENE              |                |                |
| 17 | VEHICLE MODEL YEAR                   |                | EXTERIOR ITEMS |
| 18 | VEHICLE MAKE                         |                |                |
| 19 | VEHICLE MODEL                        |                |                |
| 20 | VEHICLE BODY TYPE                    |                |                |
| 21 | TOWED TRAILING UNIT                  |                |                |
| 22 | CAB CONFIGURATION                    |                |                |
| 27 | SEATING CAPACITY/TRUCK VOCATION      |                |                |
| 28 | TRACTOR WITH DROMEDARY               |                |                |
| 30 | NUMBER OF AXLES-POWER UNIT           |                |                |
| 31 | NUMBER OF AXLES-1ST TRAILER          |                |                |
| 32 | NUMBER OF AXLES-2ND TRAILER          |                |                |
| 33 | NUMBER OF AXLES-3RD TRAILER          |                |                |
| 34 | TYPE OF BRAKES                       |                |                |

|    |                                     |                                  |                            |
|----|-------------------------------------|----------------------------------|----------------------------|
| 35 | GROSS VEHICLE WEIGHT RATINGS (GVWR) | CDC/IDC HIGHEST DELTA "V"        | EXTERIOR ITEMS (CONTINUED) |
| 36 | VEHICLE SEQUENCE NUMBER             |                                  |                            |
| 37 | OBJECT                              |                                  |                            |
| 38 | CONTACTED                           |                                  |                            |
| 39 | DIRECTION                           |                                  |                            |
| 40 | OF FORCE                            |                                  |                            |
| 41 | DEFORMATION LOCATION                |                                  |                            |
| 42 | LONG./LATERAL LOCATION              |                                  |                            |
| 43 | VERT./LATERAL LOCATION              |                                  |                            |
| 44 | TYPE OF DAMAGE DISTRIBUTION         |                                  |                            |
| 45 | DEFORMATION                         | CDC/IDC SECOND HIGHEST DELTA "V" |                            |
| 46 | EXTENT GUIDE                        |                                  |                            |
| 47 | ACCIDENT SEQUENCE NUMBER            |                                  |                            |
| 48 | VEHICLE SEQUENCE NUMBER             |                                  |                            |
| 49 | OBJECT                              |                                  |                            |
| 50 | CONTACTED                           |                                  |                            |
| 51 | DIRECTION                           |                                  |                            |
| 52 | OF FORCE                            |                                  |                            |
| 53 | DEFORMATION LOCATION                |                                  |                            |
| 54 | LONG./LATERAL LOCATION              |                                  |                            |
| 55 | VERT./LATERAL LOCATION              | CDC/IDC THIRD HIGHEST DELTA "V"  |                            |
| 56 | TYPE OF DAMAGE DISTRIBUTION         |                                  |                            |
| 57 | DEFORMATION                         |                                  |                            |
| 58 | EXTENT GUIDE                        |                                  |                            |
| 59 | ACCIDENT SEQUENCE NUMBER            |                                  |                            |
| 60 | VEHICLE SEQUENCE NUMBER             |                                  |                            |
| 61 | OBJECT                              |                                  |                            |
| 62 | CONTACTED                           |                                  |                            |
| 63 | DIRECTION                           |                                  |                            |
| 64 | OF FORCE                            |                                  |                            |
| 65 | DEFORMATION LOCATION                |                                  |                            |
| 66 | LONG./LATERAL LOCATION              |                                  |                            |
| 67 | VERT./LATERAL LOCATION              |                                  |                            |

|  |  |                                     |                      |
|--|--|-------------------------------------|----------------------|
| 66   | TYPE OF DAMAGE DISTRIBUTION  | COL/LOC FOURTH<br>HIGHEST DELTA "V" | EXTERIOR ITEMS CONT. |
| 67<br>70   | DEFORMATION<br>EXTENT SLIDE  |                                     |                      |
| 71   | ACCIDENT SEQUENCE NUMBER   |                                     |                      |
| 72   | VEHICLE SEQUENCE NUMBER  |                                     |                      |
| 73<br>74   | OBJECT<br>CONTACTED  |                                     |                      |
| 75<br>76   | DIRECTION<br>OF FORCE  |                                     |                      |
| 77   | DEFORMATION LOCATION   |                                     |                      |
| 78   | LONG./LATERAL LOCATION   |                                     |                      |
| 79   | VERT./LATERAL LOCATION   |                                     |                      |
| 82   | TYPE OF DAMAGE DISTRIBUTION  |                                     |                      |
| 81<br>82   | DEFORMATION<br>EXTENT SLIDE  | INTERIOR ITEMS                      |                      |
| 83   | ACCIDENT SEQUENCE NUMBER   |                                     |                      |
| 84<br>85<br>86<br>87<br>88<br>89<br>90             | VEHICLE IDENTIFICATION<br>NUMBER   |                                     |                      |
| 91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99 | ////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>////////////////////////////////////<br>//////////////////////////////////// |                                     |                      |
| 101  | REGISTRATION OF VEHICLE  |                                     |                      |
| 102  | VEHICLE SPECIAL USE  |                                     |                      |
| 103<br>104<br>105                                  | ODOMETER READING   |                                     |                      |
| 106  | PASSENGER COMPARTMENT INTEGRITY  |                                     |                      |
| 107  | PASSENGER COMPARTMENT INTRUSION  |                                     |                      |

|                          |   |                    |
|--------------------------|---|--------------------|
| 109                      | MAGNITUDE OF INTRUSION                          | SUPPLEMENTAL ITEMS |
| 109                      | FIRE OCCURRENCE                                 |                    |
| 110                      | MOST SEVERE IMPACT ROLE                         |                    |
| 111                      | ROLE OF OTHER CONTACTED BODY                    |                    |
| 112                      | ROLLOVER  |                    |
| 113                      | JACKKNIFE                                       |                    |
| 114                      | SAFETY PROC. BULLETIN SUBMITTED                 |                    |
| 115                      | HAZARDOUS CARGO                                 |                    |
| 116<br>117<br>118        | VEHICLE CURB WEIGHT                             |                    |
| 119<br>120<br>121        | VEHICLE CARGO WEIGHT                            |                    |
| 122                      | CARGO WEIGHT INFO SOURCE                        | CRASH PROGRAM      |
| 123                      | BASIS FOR TOTAL DELTA "V"                       |                    |
| 124<br>125               | TOTAL DELTA "V"                                 |                    |
| 126<br>127<br>128        | LONGITUDINAL COMPONENT OF<br>DELTA "V"          |                    |
| 129<br>130<br>131        | LATERAL COMPONENT OF<br>DELTA "V"               |                    |
| 132<br>133<br>134<br>135 | ENERGY ABSORPTION                               |                    |
| 136<br>137<br>138<br>139 | CRASH DAMAGE DATA<br>FOR HIGHEST DELTA "V" - L  |                    |
| 140<br>141<br>142        | CRASH DAMAGE DATA<br>FOR HIGHEST DELTA "V" - O1 |                    |
| 143<br>144<br>145        | CRASH DAMAGE DATA<br>FOR HIGHEST DELTA "V" - O2 |                    |
| 146<br>147<br>148        | CRASH DAMAGE DATA<br>FOR HIGHEST DELTA "V" - O3 |                    |

|     |                             |                           |
|-----|-----------------------------|---------------------------|
| 149 | CRASH DAMAGE DATE           | CRASH PROGRAM (CONTINUED) |
| 150 | FOR -18-EST DELTA *V* - 04  |                           |
| 151 |                             |                           |
| 152 |                             |                           |
| 153 | CRASH DAMAGE DATE           | CRASH PROGRAM (CONTINUED) |
| 154 | FOR -18-EST DELTA *V* - 05  |                           |
| 155 |                             |                           |
| 156 |                             |                           |
| 157 | CRASH DAMAGE DATE           | CRASH PROGRAM (CONTINUED) |
| 158 | FOR -18-EST DELTA *V* - 06  |                           |
| 159 |                             |                           |
| 160 |                             |                           |
| 161 | CRASH DAMAGE DATE           | CRASH PROGRAM (CONTINUED) |
| 162 | FOR -18-EST DELTA *V* - 0   |                           |
| 163 |                             |                           |
| 164 |                             |                           |
| 162 | TRAVEL SPEED                | P A R                     |
| 163 |                             |                           |
| 164 | FIRST VEHICLE               |                           |
| 165 | RELATED FACTOR              |                           |
| 166 | SECOND VEHICLE              | P A R                     |
| 167 | RELATED FACTOR              |                           |
| 168 | THIRD VEHICLE               |                           |
| 169 | RELATED FACTOR              |                           |
| 170 | VIA LENGTH                  | DERIVED                   |
| 171 |                             |                           |
| 172 | VEHICLE SHORT FORM          |                           |
| 173 | NUMBER OF SERIOUSLY INJURED |                           |
| 174 | IN THIS VEHICLE             |                           |
| 175 | NUMBER INJURED IN THIS      |                           |
| 176 | VEHICLE                     |                           |
| 177 | WHEEL BASE - SHORT          |                           |
| 178 |                             |                           |
| 179 |                             |                           |
| 180 |                             |                           |
| 181 | WHEEL BASE - LONG           |                           |
| 182 |                             |                           |
| 183 |                             |                           |
| 184 |                             |                           |
| 185 | FRONT/REAR WHEEL DRIVE      |                           |
| 186 | *AXIS OF TREATMENT          |                           |
| 187 | WEIGHT OF THE               |                           |
| 188 | OTHER VEHICLE               |                           |
| 189 |                             |                           |
| 190 | BODY TYPE OF THE            |                           |
| 191 | OTHER VEHICLE               |                           |
| 192 |                             |                           |
| 193 | MAXIMUM KNOWN ACS           |                           |

|    |  |                |
|----|--|----------------|
| 1  | PSJ NUMBER   | IDENTIFICATION |
| 2  |  |                |
| 3  | CASE NUMBER-STRATIFICATION                               |                |
| 4  |  |                |
| 5  |  |                |
| 6  |  |                |
| 7  | RECORD NUMBER  |                |
| 8  | ////////////////////                                     |                |
| 9  | VERSION NUMBER   |                |
| 10 | ////////////////////                                     |                |
| 11 | VEHICLE NUMBER   |                |
| 12 |  |                |
| 13 | NUMBER OF OCCUPANTS<br>THIS MOTOR VEHICLE                |                |
| 14 |  |                |
| 15 | DRIVER PRESENCE IN VEHICLE                               |                |
| 16 | MONTHS DRIVING EXPERIENCE<br>THIS CLASS OF VEHICLE       |                |
| 17 |  |                |
| 18 | ESTIMATED MILEAGE<br>THIS VEHICLE                        |                |
| 19 |  |                |
| 20 |  |                |
| 21 | TOTAL MILEAGE<br>ALL VEHICLES                            |                |
| 22 |  |                |
| 23 |  |                |
| 24 | TYPE OF OPERATION/CARRIER                                |                |
| 25 | FEDERAL SAFETY REGULATED                                 |                |
| 26 | DRIVER'S CLASSIFICATION                                  |                |
| 27 | DRIVER EDUCATION   |                |
| 28 | FREQUENCY DRIVING ROAD                                   |                |
| 29 | LAST ACTION PRIOR TO<br>AVOIDANCE MANEUVERS              |                |
| 30 |  |                |
| 31 | SECOND TO LAST ACTION<br>PRIOR TO<br>AVOIDANCE MANEUVERS |                |
| 32 |  |                |
| 33 | THIRD TO LAST ACTION<br>PRIOR TO<br>AVOIDANCE MANEUVERS  |                |
| 34 |  |                |
| 35 | ATTEMPTED AVOIDANCE<br>MANEUVER (PRE-CRASH)              |                |
| 36 |  |                |
| 37 | ACCIDENTS IN PAST 12 MTHS.                               |                |
|    |  | INTERVIEW      |

|    |                               |         |
|----|-------------------------------|---------|
| 38 | SPEEDING                      |         |
| 39 | DRIVING WHILE INTOXICATED     |         |
| 40 | RECKLESS DRIVING              |         |
| 41 | SUSPENDED/REVOKED LICENSE     |         |
| 42 | FAILURE TO YIELD              |         |
| 43 | FOLLOWING TOO CLOSELY         |         |
| 44 | RUNNING SIGNAL/STOP SIGN      |         |
| 45 | OTHER VIOLATION CHARGED       |         |
| 46 | UNKNOWN VIOLATION CHARGED     |         |
| 47 | ALCOHOL PRESENCE              |         |
| 48 | ALCOHOL TEST RESULTS          |         |
| 49 |                               |         |
| 50 | LICENSE SOURCE                |         |
| 51 | LIC. COMPLIANCE W/RESTRIC.    |         |
| 52 | DRIVER LICENSE STATUS         |         |
| 53 | DRIVER LIC. TYPE COMPLIANCE   |         |
| 54 | DRIVER LIC. RESTRICTIONS      |         |
| 55 | ADDITIONAL DRV. LIC. RESTR.   |         |
| 56 | PREVIOUS SPEEDING CONVICTION  |         |
| 57 | PREVIOUS OTHER HARMFUL MOVING |         |
| 58 | PREVIOUS DWI CONVICTIONS      |         |
| 59 | PREVIOUS SUSPENSION/REVOG.    |         |
| 60 | PREVIOUS RECORDED ACCIDENTS   |         |
|    |                               | PAR     |
|    |                               | RECORDS |

|     |   |                    |
|-----|---|--------------------|
| 61  | NUMBER OF TRAVEL LANES                        | ENVIRONMENTAL DATA |
| 62  | MEDIAN TYPE                                   |                    |
| 63  | MEDIAN WIDTH                                  |                    |
| 64  |   |                    |
| 65  | ACCESS CONTROL                                |                    |
| 66  | TRAFFICWAY FLOW                               |                    |
| 67  | ////////////////////                          |                    |
| 68  | ////////////////////                          |                    |
| 69  | ////////////////////                          |                    |
| 70  | ////////////////////                          |                    |
| 71  | ////////////////////                          |                    |
| 72  | ////////////////////                          |                    |
| 73  | ////////////////////                          |                    |
| 74  | ////////////////////                          |                    |
| 75  | ////////////////////                          |                    |
| 76  | ////////////////////                          |                    |
| 77  | ////////////////////                          |                    |
| 78  | ////////////////////                          |                    |
| 79  | ////////////////////                          |                    |
| 80  | LEFT SHOULDER TYPE                            |                    |
| 81  | RIGHT SHOULDER TYPE                           |                    |
| 82  | ROADWAY ALIGNMENT                             |                    |
| 83  | ROADWAY PROFILE                               |                    |
| 84  | ROADWAY SURFACE TYPE                          |                    |
| 85  | ROADWAY SURFACE CONDITION                     |                    |
| 86  | SPEED LIMIT                                   |                    |
| 87  |   |                    |
| 88  | TRAF. CNTL. FUNC.                             |                    |
| 89  | TRAFFIC CONTROL<br>DEVICE                     |                    |
| 90  |   |                    |
| 91  | FIRST OTHER DRIVER<br>RELATED FACTORS         |                    |
| 92  |   |                    |
| 93  | SECOND OTHER DRIVER<br>RELATED FACTORS        |                    |
| 94  |   |                    |
| 95  | THIRD OTHER DRIVER<br>RELATED FACTORS         |                    |
| 96  |   |                    |
| 97  | FIRST OTHER ENVIRONMENTAL<br>RELATED FACTORS  |                    |
| 98  |   |                    |
| 99  | SECOND OTHER ENVIRONMENTAL<br>RELATED FACTORS |                    |
| 100 |   |                    |
| 101 | THIRD OTHER ENVIRONMENTAL<br>RELATED FACTORS  |                    |
| 102 |   |                    |
|     |   | RELATED FACTORS    |

|    |                                      |                |                |                                   |                       |    |                |            |  |
|----|--------------------------------------|----------------|----------------|-----------------------------------|-----------------------|----|----------------|------------|--|
| 1  | PSL NUMBER                           | IDENTIFICATION | 37             | MANUAL RESTRAINT SYSTEM USE       | O.I.C.                | 66 | BODY REGION    | 4TH INJURY | OCCUPANT INJURY CLASSIFICATION (CONTINUED) |
| 2  | CASE NUMBER-STRATIFICATION           |                | 38             | AUTOMATIC RESTRAINT SYSTEM AVAIL. |                       | 68 | ASPECT         |            |  |
| 3  | RECORD NUMBER                        |                | 39             | AUTOMATIC RESTRAINT FUNCTION      |                       | 70 | LESSION        |            |  |
| 4  | //////////////////////////////////// |                | 40             | RELATION OF INTERVIEWEE TO OCC.   |                       | 71 | SYSTEM/ORGAN   |            |  |
| 5  | VERSION NUMBER                       |                | 41             | BODY REGION                       |                       | 72 | AIS SEVERITY   |            |  |
| 6  | //////////////////////////////////// |                | 42             | ASPECT                            |                       | 73 | INJURY SOURCE  |            |  |
| 7  | VEHICLE NUMBER                       |                | 43             | LESSION                           |                       | 74 | SOURCE OF DATA |            |  |
| 8  | //////////////////////////////////// |                | 44             | SYSTEM/ORGAN                      |                       | 75 | BODY REGION    |            |  |
| 9  | OCCUPANT NUMBER                      |                | 45             | AIS SEVERITY                      |                       | 76 | ASPECT         |            |  |
| 10 | OCCUPANT'S AGE                       |                | 46             | INJURY SOURCE                     |                       | 77 | LESSION        |            |  |
| 11 | OCCUPANT'S SEX                       |                | 47             | SOURCE OF DATA                    |                       | 78 | SYSTEM/ORGAN   |            |  |
| 12 | OCCUPANT'S HEIGHT                    |                | 48             | BODY REGION                       |                       | 79 | AIS SEVERITY   |            |  |
| 13 | OCCUPANT'S WEIGHT                    |                | 49             | ASPECT                            |                       | 80 | INJURY SOURCE  |            |  |
| 14 | OCCUPANT'S ROLE                      | 50             | LESSION        | 81                                | SOURCE OF DATA        |    |                |            |  |
| 15 | OCCUPANT'S SEAT POSITION             | 51             | SYSTEM/ORGAN   | 82                                | BODY REGION           |    |                |            |  |
| 16 | ENTRANCE                             | 52             | AIS SEVERITY   | 83                                | ASPECT                |    |                |            |  |
| 17 | EJECTION                             | 53             | INJURY SOURCE  | 84                                | LESSION               |    |                |            |  |
| 18 | EJECTION AREA                        | 54             | SOURCE OF DATA | 85                                | SYSTEM/ORGAN          |    |                |            |  |
| 19 | EJECTION MEDIUM                      | 55             | BODY REGION    | 86                                | AIS SEVERITY          |    |                |            |  |
| 20 | MEDIUM STATUS                        | 56             | ASPECT         | 87                                | INJURY SOURCE         |    |                |            |  |
| 21 | TREATMENT - MORTALITY                | 57             | LESSION        | 88                                | SOURCE OF DATA        |    |                |            |  |
| 22 | HOSPITAL STAY                        | 58             | SYSTEM/ORGAN   | 89                                | BODY REGION           |    |                |            |  |
| 23 | WORKING DAYS LOST                    | 59             | AIS SEVERITY   | 90                                | ASPECT                |    |                |            |  |
| 24 | MANUAL RESTRAINT SYSTEM AVAIL.       | 60             | INJURY SOURCE  | 91                                | LESSION               |    |                |            |  |
|    |                                      | 61             | SOURCE OF DATA | 92                                | SYSTEM/ORGAN          |    |                |            |  |
|    |                                      | 62             | BODY REGION    | 93                                | AIS SEVERITY          |    |                |            |  |
|    |                                      | 63             | ASPECT         | 94                                | INJURY SOURCE         |    |                |            |  |
|    |                                      | 64             | LESSION        | 95                                | SOURCE OF DATA        |    |                |            |  |
|    |                                      | 65             | SYSTEM/ORGAN   | 96                                | BODY REGION           |    |                |            |  |
|    |                                      | 66             | AIS SEVERITY   | 97                                | ASPECT                |    |                |            |  |
|    |                                      | 67             | INJURY SOURCE  | 98                                | LESSION               |    |                |            |  |
|    |                                      | 68             | SOURCE OF DATA | 99                                | SYSTEM/ORGAN          |    |                |            |  |
|    |                                      | 69             | BODY REGION    | 100                               | AIS SEVERITY          |    |                |            |  |
|    |                                      | 70             | ASPECT         |                                   | INJURY SEVERITY SCORE |    |                |            |  |
|    |                                      | 71             | LESSION        |                                   | OTHER                 |    |                |            |  |
|    |                                      | 72             | SYSTEM/ORGAN   |                                   | DECEASED              |    |                |            |  |
|    |                                      | 73             | AIS SEVERITY   |                                   |                       |    |                |            |  |
|    |                                      | 74             | INJURY SOURCE  |                                   |                       |    |                |            |  |
|    |                                      | 75             | SOURCE OF DATA |                                   |                       |    |                |            |  |
|    |                                      | 76             | BODY REGION    |                                   |                       |    |                |            |  |
|    |                                      | 77             | ASPECT         |                                   |                       |    |                |            |  |
|    |                                      | 78             | LESSION        |                                   |                       |    |                |            |  |
|    |                                      | 79             | SYSTEM/ORGAN   |                                   |                       |    |                |            |  |
|    |                                      | 80             | AIS SEVERITY   |                                   |                       |    |                |            |  |
|    |                                      | 81             | INJURY SOURCE  |                                   |                       |    |                |            |  |
|    |                                      | 82             | SOURCE OF DATA |                                   |                       |    |                |            |  |
|    |                                      | 83             | BODY REGION    |                                   |                       |    |                |            |  |
|    |                                      | 84             | ASPECT         |                                   |                       |    |                |            |  |
|    |                                      | 85             | LESSION        |                                   |                       |    |                |            |  |
|    |                                      | 86             | SYSTEM/ORGAN   |                                   |                       |    |                |            |  |
|    |                                      | 87             | AIS SEVERITY   |                                   |                       |    |                |            |  |
|    |                                      | 88             | INJURY SOURCE  |                                   |                       |    |                |            |  |
|    |                                      | 89             | SOURCE OF DATA |                                   |                       |    |                |            |  |
|    |                                      | 90             | BODY REGION    |                                   |                       |    |                |            |  |
|    |                                      | 91             | ASPECT         |                                   |                       |    |                |            |  |
|    |                                      | 92             | LESSION        |                                   |                       |    |                |            |  |
|    |                                      | 93             | SYSTEM/ORGAN   |                                   |                       |    |                |            |  |
|    |                                      | 94             | AIS SEVERITY   |                                   |                       |    |                |            |  |
|    |                                      | 95             | INJURY SOURCE  |                                   |                       |    |                |            |  |
|    |                                      | 96             | SOURCE OF DATA |                                   |                       |    |                |            |  |
|    |                                      | 97             | BODY REGION    |                                   |                       |    |                |            |  |
|    |                                      | 98             | ASPECT         |                                   |                       |    |                |            |  |
|    |                                      | 99             | LESSION        |                                   |                       |    |                |            |  |
|    |                                      | 100            | SYSTEM/ORGAN   |                                   |                       |    |                |            |  |

## SECTION 5

### SAS FILE

NASS data are available in the form of a Statistical Analysis System (SAS) file. SAS is a highly flexible statistical package that provides a high level programming language for effective matrix manipulation, and data management facilities.

SAS is a non-hierarchical data base. The SAS data base for NASS consists of five individual data sets, one for each of the five NASS record levels, i.e. Accident, Pedestrian, Vehicle, Driver, and Occupant. Using modified relational database concepts, SAS allows the natural hierarchical structure of NASS data to be fully explored by the analyst. An analyst can create a new SAS data set by merging data from several levels of the NASS hierarchy--e.g., vehicle and driver levels--through use of an appropriate set of SAS commands within the DATA step.

#### SAS Data Base Contents

The variable names in the NASS/SAS data base are from the data collection forms and are limited to eight characters. The SAS data base is generally an exact representation of the data contained on the NASS master file. The only exceptions are the following:

- Numeric variables for which 9, 99, etc. represent "unknown" are recoded to the SAS special missing value .U ("dot-u");
- The value of 95 ("test refused") for Pedestrian/non-motorists and Driver Alcohol Test Results (ALCTEST) has been recoded to .B; the value of 96 ("not given") has been recoded .C; the value of 97 ("performed, results unknown") has been recoded .D; and the value 99 ("unknown") has been recoded .U;
- Missing data for numeric values are recoded as "." in SAS and are not included in percentage tabulations;
- Numeric variables not present on the short vehicle form for nontowaway accidents have been recoded to .N (Not Collected);
- Hour of Day (Time) is stored as a SAS time value, and has an output format of HHMM5.

PSU NUMBER (PSU), CASE NUMBER-STRATIFICATION (CASEID) and SEQUENCE NUMBER (CASENO) are identical variables across all NASS records. CASENO is the first three digits of CASEID. Therefore, PSU and either CASENO or CASEID can be used to merge NASS record levels. Similarly, VEHICLE NUMBER (VEHNO) is identical in the Vehicle, Driver, and Occupant record levels and can be used to merge these records in the DATA step.

The remainder of this Section presents the SAS layout for the 1983 NASS. In general, the order of variables in the SAS data sets follows the order of data fields on the master file (and thus the order of items on the data collection forms used by NASS investigation teams). The user can invoke PROC CONTENTS to produce the following list of SAS variables:

MASS 1983 ANALYSIS FILE CREATION

CONTENTS OF SAS DATA SET CASESIN.ACCIDENT

ALPHABETIC LIST OF VARIABLES

| #  | VARIABLE | TYPE | LENGTH | POSITION | FORMAT | INFORMAT | LABEL                                    |
|----|----------|------|--------|----------|--------|----------|--|
| 53 | AAIS     | NUM  | 2      | 111      |        |          | MAXIMUM KNOWN AIS IN ACCIDENT            |
| 30 | ACCESS   | NUM  | 2      | 65       |        |          | ACCESS CONTROL                           |
| 15 | ACCSEVP  | NUM  | 2      | 33       |        |          | POLICE REPORTED ACCIDENT SEVERITY        |
| 51 | AJNJSER  | NUM  | 2      | 107      |        |          | NUMBER OF SERIOUSLY INJURED PERSONS      |
| 50 | AJNJURED | NUM  | 2      | 105      |        |          | TOTAL NUMBER OF INJURED PERSONS          |
| 52 | ALCINV   | NUM  | 2      | 109      |        |          | ALCOHOL INVOLVED ACCIDENT                |
| 34 | ALIGNMNT | NUM  | 2      | 73       |        |          | ROADWAY ALIGNMENT                        |
| 54 | ATREAT   | NUM  | 2      | 113      |        |          | MAXIMUM TREATMENT IN ACCIDENT            |
| 2  | CASEID   | CHAR | 4      | 6        |        |          | CASE NUMBER - STRATIFICATION             |
| 3  | CASENO   | NUM  | 3      | 10       |        |          | SEQUENCE NUMBER                          |
| 22 | CLTWAY   | NUM  | 2      | 49       |        |          | CLASS TRAFFICWAY                         |
| 48 | DAYWEEK  | NUM  | 2      | 101      |        |          | DAY OF WEEK                              |
| 21 | FEDAID   | NUM  | 2      | 47       |        |          | ROAD TA-1 CLASSIFICATION                 |
| 9  | FINSTR   | CHAR | 1      | 22       |        |          | FINAL STRATIFICATION                     |
| 32 | GEOMETRY | NUM  | 2      | 69       |        |          | INTERCHANGE GEOMETRY                     |
| 35 | GRADE    | NUM  | 2      | 75       |        |          | ROADWAY PROFILE                          |
| 10 | HARMEV1  | NUM  | 2      | 23       |        |          | FIRST HARMFUL EVENT                      |
| 16 | HITRUN   | NUM  | 2      | 35       |        |          | INVOLVEMENT OF HIT & RUN IN ACCIDENT     |
| 20 | LANDUSE  | NUM  | 2      | 45       |        |          | LAND USE                                 |
| 27 | LANES    | NUM  | 2      | 59       |        |          | NUMBER OF TRAVEL LANES                   |
| 18 | LGTCOND  | NUM  | 2      | 41       |        |          | LIGHT CONDITIONS                         |
| 11 | MANCOLL  | NUM  | 2      | 25       |        |          | NUMBER OF COLLISION (BASED ON F.H.E.)    |
| 28 | MEDIANT  | NUM  | 2      | 61       |        |          | MANNER OF COLLISION (BASED ON F.H.E.)    |
| 29 | MEDIANW  | NUM  | 2      | 63       |        |          | MEDIAN TYPE                              |
| 7  | MONTH    | NUM  | 2      | 18       | 9.3    |          | MEDIAN WIDTH                             |
| 56 | NATWGT   | NUM  | 4      | 119      |        |          | MONTH OF ACCIDENT                        |
| 14 | PEDFORMS | NUM  | 4      | 31       |        |          | NATIONAL INFLATION FACTOR                |
| 1  | PSU      | NUM  | 2      | 4        |        |          | NUMBER OF PED/NONMOTOR FORMS SUBMITTED   |
| 55 | PSUWGT   | NUM  | 4      | 115      | 9.3    |          | PSU NUMBER                               |
| 57 | RATWGT   | NUM  | 4      | 123      | 9.3    |          | PSU INFLATION FACTOR                     |
| 5  | RECNO    | NUM  | 4      | 14       |        |          | RATIO ADJUSTMENT                         |
| 24 | RELJUNC  | NUM  | 2      | 53       |        |          | RECORD NUMBER                            |
| 12 | RELROAD  | NUM  | 2      | 27       |        |          | RELATION TO JUNCTION                     |
| 23 | ROADFUNC | NUM  | 2      | 51       |        |          | RELATION TO ROADWAY (LOCATION OF F.H.E.) |
| 43 | ROWADD   | NUM  | 2      | 91       |        |          | ROADWAY FUNCTION CLASS                   |
| 42 | ROWPRI   | NUM  | 2      | 89       |        |          | ADDITIONAL RDWY RESTRICTIONS AT SCENE    |
| 25 | SCHBUS   | NUM  | 2      | 55       |        |          | RESTRICTION OF ROADWAY AT SCENE          |
| 40 | SCHZONE  | NUM  | 2      | 85       |        |          | SCHOOL BUS-RELATED                       |
| 49 | SDO      | NUM  | 2      | 103      |        |          | ACCIDENT OCCURRENCE IN SCHOOL ZONE       |
| 33 | SHOULDER | NUM  | 2      | 71       |        |          | SOURCE DOCUMENT ONLY                     |
| 41 | SPLIMIT  | NUM  | 2      | 87       |        |          | SHOULDER PRESENCE                        |
| 46 | S5CC     | NUM  | 2      | 97       |        |          | SPEED LIMIT                              |
| 47 | SSHONDA  | NUM  | 2      | 99       |        |          | CRASH CUSHION (S.S. INDICATOR)           |
| 45 | S5LB     | NUM  | 2      | 95       |        |          | HONDA (S.S. INDICATOR)                   |
| 44 | S5POLE   | NUM  | 2      | 93       |        |          | LONGITUDINAL BARRIER (S.S. INDICATOR)    |
| 4  | STRATIF  | CHAR | 1      | 13       |        |          | POLE (S.S. INDICATOR)                    |
| 37 | SURCOND  | NUM  | 2      | 79       |        |          | INITIAL STRATIFICATION                   |
| 4  | SURTYPE  | NUM  | 2      | 77       |        |          | ROADWAY SURFACE CONDITION                |
|    |          |      | 2      |          |        |          | ROADWAY SURFACE TYPE                     |

NASS 1983 ANALYSIS FILE CREATION

17:23 MONDAY, JUNE 4, 1984

|    |           |     |   |    |        |                                    |
|----|-----------|-----|---|----|--------|------------------------------------|
| 17 | TIME      | NUM | 4 | 37 | HHMM5. | TIME OF ACCIDENT                   |
| 38 | TRAFCONT  | NUM | 2 | 81 |        | TRAFFIC CONTROLS                   |
| 31 | TRAFFLOW  | NUM | 2 | 67 |        | TRAFFICWAY FLOW                    |
| 39 | TRCTLFACT | NUM | 2 | 83 |        | TRAFFIC CONTROL DEVICE FUNCTIONING |
| 26 | TURNRED   | NUM | 2 | 57 |        | RIGHT OR LEFT TURN ON RED RELATED  |
| 13 | VEHFORMS  | NUM | 2 | 29 |        | NUMBER OF VEHICLE FORMS SUBMITTED  |
| 6  | VERSION   | NUM | 2 | 16 |        | VERSION NUMBER                     |
| 19 | WEATHER   | NUM | 2 | 43 |        | ATMOSPHERIC CONDITIONS             |
| 8  | YEAR      | NUM | 2 | 20 |        | YEAR OF ACCIDENT                   |

NAISS 1983 ANALYSIS FILE CREATION  
 CONTENTS OF SAS DATA SET CASESIN.PEDES

ALPHABETIC LIST OF VARIABLES

| #  | VARIABLE | TYPE | LENGTH | POSITION | FORMAT | INFORMAT | LABEL                                 |
|----|----------|------|--------|----------|--------|----------|---------------------------------------|
| 9  | AGE      | NUM  | 2      | 22       |        |          | AGE OF PERSON                         |
| 43 | AIS1     | NUM  | 2      | 68       |        |          | AIS SEVERITY (FIRST)                  |
| 44 | AIS2     | NUM  | 2      | 70       |        |          | AIS SEVERITY (SECOND)                 |
| 45 | AIS3     | NUM  | 2      | 72       |        |          | AIS SEVERITY (THIRD)                  |
| 46 | AIS4     | NUM  | 2      | 74       |        |          | AIS SEVERITY (FOURTH)                 |
| 47 | AIS5     | NUM  | 2      | 76       |        |          | AIS SEVERITY (FIFTH)                  |
| 48 | AIS6     | NUM  | 2      | 78       |        |          | AIS SEVERITY (SIXTH)                  |
| 64 | ALCTEST  | NUM  | 2      | 110      |        |          | MEASURED BLOOD ALCOHOL LEVEL          |
| 25 | ASPECT1  | CHAR | 1      | 50       |        |          | ASPECT (FIRST)                        |
| 26 | ASPECT2  | CHAR | 1      | 51       |        |          | ASPECT (SECOND)                       |
| 27 | ASPECT3  | CHAR | 1      | 52       |        |          | ASPECT (THIRD)                        |
| 28 | ASPECT4  | CHAR | 1      | 53       |        |          | ASPECT (FOURTH)                       |
| 29 | ASPECT5  | CHAR | 1      | 54       |        |          | ASPECT (FIFTH)                        |
| 30 | ASPECT6  | CHAR | 1      | 55       |        |          | ASPECT (SIXTH)                        |
| 19 | BODYREG1 | CHAR | 1      | 43       |        |          | OIC BODY REGION (FIRST)               |
| 20 | BODYREG2 | CHAR | 1      | 44       |        |          | OIC BODY REGION (SECOND)              |
| 21 | BODYREG3 | CHAR | 1      | 45       |        |          | OIC BODY REGION (THIRD)               |
| 22 | BODYREG4 | CHAR | 2      | 46       |        |          | OIC BODY REGION (FOURTH)              |
| 23 | BODYREG5 | CHAR | 1      | 48       |        |          | OIC BODY REGION (FIFTH)               |
| 24 | BODYREG6 | CHAR | 1      | 49       |        |          | OIC BODY REGION (SIXTH)               |
| 2  | CASEID   | CHAR | 4      | 6        |        |          | CASE NUMBER - STRATIFICATION          |
| 3  | CASENO   | NUM  | 3      | 10       |        |          | SEQUENCE NUMBER                       |
| 13 | CYCLEEX  | NUM  | 2      | 31       |        |          | MONTHS CYCLING EXPERIENCE             |
| 65 | DEATHDT  | NUM  | 2      | 112      |        |          | TIME OF DEATH                         |
| 63 | DRINKING | NUM  | 2      | 108      |        |          | ALCOHOL PRESENCE                      |
| 11 | HEIGHT   | NUM  | 2      | 26       |        |          | HEIGHT OF PERSON                      |
| 16 | HOSPSTAY | NUM  | 2      | 37       |        |          | HOSPITAL STAY                         |
| 61 | INJSEV   | NUM  | 2      | 104      |        |          | INJURY SEVERITY (POLICE RATING)       |
| 49 | INJSOU1  | NUM  | 2      | 80       |        |          | INJURY SOURCE (FIRST)                 |
| 50 | INJSOU2  | NUM  | 2      | 82       |        |          | INJURY SOURCE (SECOND)                |
| 51 | INJSOU3  | NUM  | 2      | 84       |        |          | INJURY SOURCE (THIRD)                 |
| 52 | INJSOU4  | NUM  | 2      | 86       |        |          | INJURY SOURCE (FOURTH)                |
| 53 | INJSOU5  | NUM  | 2      | 88       |        |          | INJURY SOURCE (FIFTH)                 |
| 54 | INJSOU6  | NUM  | 2      | 90       |        |          | INJURY SOURCE (SIXTH)                 |
| 18 | INTREL   | NUM  | 2      | 41       |        |          | RELATION OF INTERVIEWEE TO OCC/PED/NM |
| 69 | ISS      | NUM  | 2      | 120      |        |          | ISS                                   |
| 31 | LESION1  | CHAR | 1      | 56       |        |          | LESION (FIRST)                        |
| 32 | LESION2  | CHAR | 1      | 57       |        |          | LESION (SECOND)                       |
| 33 | LESION3  | CHAR | 1      | 58       |        |          | LESION (THIRD)                        |
| 34 | LESION4  | CHAR | 1      | 59       |        |          | LESION (FOURTH)                       |
| 35 | LESION5  | CHAR | 1      | 60       |        |          | LESION (FIFTH)                        |
| 36 | LESION6  | CHAR | 1      | 61       |        |          | LESION (SIXTH)                        |
| 70 | MAIS     | NUM  | 2      | 122      |        |          | MAXIMUM KNOWN OCC/PED/NM AIS          |
| 72 | NATWGT   | NUM  | 4      | 128      | 9.3    |          | NATIONAL INFLATION FACTOR             |
| 14 | PEDLOC   | NUM  | 2      | 33       |        |          | LOCATION                              |
| 66 | PEDRF1   | NUM  | 2      | 114      |        |          | 1ST OTHER PED/NM RELATED FACTOR       |
| 67 | PEDRF2   | NUM  | 2      | 116      |        |          | 2ND OTHER PED/NM RELATED FACTOR       |
| 68 | PEDRF3   | NUM  | 2      | 118      |        |          | 3RD OTHER PED/NM RELATED FACTOR       |

NASS 1983 ANALYSIS FILE CREATION

17:23 MONDAY, JUNE 4, 1984 !

|    |          |      |   |     |     |  |
|----|----------|------|---|-----|-----|--|
| 7  | PERNO    | NUM  | 2 | 18  |     | PEDESTRIAN/NONMOTORIST'S NUMBER          |
| 8  | PERTYPE  | NUM  | 2 | 20  |     | PEDESTRIAN/NONMOTORIST'S TYPE            |
| 1  | PSU      | NUM  | 2 | 4   |     | PSU NUMBER                               |
| 71 | PSUWGT   | NUM  | 4 | 124 | 9.3 | PSU INFLATION FACTOR                     |
| 73 | RATWGT   | NUM  | 4 | 132 | 9.3 | RATIO ADJUSTMENT                         |
| 5  | RECNO    | NUM  | 2 | 14  |     | RECORD NUMBER                            |
| 10 | SEX      | NUM  | 2 | 24  |     | SEX OF PERSON                            |
| 55 | SOUDAT1  | NUM  | 2 | 92  |     | SOURCE OF DATA (FIRST)                   |
| 56 | SOUDAT2  | NUM  | 2 | 94  |     | SOURCE OF DATA (SECOND)                  |
| 57 | SOUDAT3  | NUM  | 2 | 96  |     | SOURCE OF DATA (THIRD)                   |
| 58 | SOUDAT4  | NUM  | 2 | 98  |     | SOURCE OF DATA (FOURTH)                  |
| 59 | SOUDAT5  | NUM  | 2 | 100 |     | SOURCE OF DATA (FIFTH)                   |
| 60 | SOUDAT6  | NUM  | 2 | 102 |     | SOURCE OF DATA (SIXTH)                   |
| 4  | STRATIF  | CHAR | 1 | 13  |     | INITIAL STRATIFICATION                   |
| 37 | SYSORG1  | CHAR | 1 | 62  |     | SYSTEM/ORGAN (FIRST)                     |
| 38 | SYSORG2  | CHAR | 1 | 63  |     | SYSTEM/ORGAN (SECOND)                    |
| 39 | SYSORG3  | CHAR | 1 | 64  |     | SYSTEM/ORGAN (THIRD)                     |
| 40 | SYSORG4  | CHAR | 1 | 65  |     | SYSTEM/ORGAN (FOURTH)                    |
| 41 | SYSORG5  | CHAR | 1 | 66  |     | SYSTEM/ORGAN (FIFTH)                     |
| 42 | SYSORG6  | CHAR | 1 | 67  |     | SYSTEM/ORGAN (SIXTH)                     |
| 15 | TREATMNT | NUM  | 2 | 35  |     | TREATMENT - MORTALITY                    |
| 6  | VERSION  | NUM  | 2 | 16  |     | VERSION NUMBER                           |
| 62 | VIOLCHG  | NUM  | 2 | 106 |     | TRAFFIC VIOLATION CHARGED - PED/NONMOTOR |
| 12 | WEIGHT   | NUM  | 3 | 28  |     | WEIGHT OF PERSON                         |
| 17 | WORKDAYS | NUM  | 2 | 39  |     | WORKING DAYS LOST                        |

CONTENTS OF SAS DATA SET CASESIN.VEHICLE

ALPHABETIC LIST OF VARIABLES

| #  | VARIABLE  | TYPE | LENGTH | POSITION | FORMAT | INFORMAT | LABEL                                  |
|----|-----------|------|--------|----------|--------|----------|--|
| 57 | ACCSEQ1   | NUM  | 2      | 102      |        |          | 1ST SEQUENCE NUMBER OF EVENT(THIS ACC) |
| 58 | ACCSEQ2   | NUM  | 2      | 104      |        |          | 2ND SEQUENCE NUMBER OF EVENT(THIS ACC) |
| 59 | ACCSEQ3   | NUM  | 2      | 106      |        |          | 3RD SEQUENCE NUMBER OF EVENT(THIS ACC) |
| 60 | ACCSEQ4   | NUM  | 2      | 108      |        |          | 4TH SEQUENCE NUMBER OF EVENT(THIS ACC) |
| 19 | AXLESP    | NUM  | 2      | 42       |        |          | NUMBER OF AXLES (POWER UNIT)           |
| 20 | AXLEST1   | NUM  | 2      | 44       |        |          | NUMBER OF AXLES (1ST TRAILER)          |
| 21 | AXLEST2   | NUM  | 2      | 46       |        |          | NUMBER OF AXLES(2ND TRAILER)           |
| 22 | AXLEST3   | NUM  | 2      | 48       |        |          | NUMBER OF AXLES(3RD TRAILER)           |
| 14 | BODYTYPE  | NUM  | 2      | 32       |        |          | BODY TYPE                              |
| 23 | BRAKETY   | NUM  | 2      | 50       |        |          | TYPE OF BRAKES                         |
| 16 | CABCONF   | NUM  | 2      | 36       |        |          | CAB CONFIGURATION                      |
| 76 | CARGOWGT  | NUM  | 3      | 150      |        |          | VEHICLE CARGO WEIGHT                   |
| 2  | CASEID    | CHAR | 4      | 6        |        |          | CASE NUMBER - STRATIFICATION           |
| 3  | CASENO    | NUM  | 3      | 10       |        |          | SEQUENCE NUMBER                        |
| 75 | CURBWGT   | NUM  | 3      | 147      |        |          | VEHICLE CURB WEIGHT                    |
| 33 | DOF1      | NUM  | 2      | 70       |        |          | DIRECTION OF FORCE (HIGHEST)           |
| 34 | DOF2      | NUM  | 2      | 72       |        |          | DIRECTION OF FORCE(2ND HIGHEST)        |
| 35 | DOF3      | NUM  | 2      | 74       |        |          | DIRECTION OF FORCE(3RD HIGHEST)        |
| 36 | DOF4      | NUM  | 2      | 76       |        |          | DIRECTION OF FORCE(4TH HIGHEST)        |
| 95 | DRIVE     | NUM  | 2      | 198      |        |          | FRONT/REAR WHEEL DRIVE                 |
| 18 | DROMEDRY  | NUM  | 2      | 40       |        |          | TRACTOR/DROMEDARY                      |
| 78 | DVBASIS   | NUM  | 2      | 155      |        |          | BASIS FOR TOTAL DELTA V (HIGHEST)      |
| 84 | DVC1      | NUM  | 3      | 169      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - C1   |
| 85 | DVC2      | NUM  | 3      | 172      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - C2   |
| 86 | DVC3      | NUM  | 3      | 175      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - C3   |
| 87 | DVC4      | NUM  | 3      | 178      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - C4   |
| 88 | DVC5      | NUM  | 3      | 181      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - C5   |
| 89 | DVC6      | NUM  | 3      | 184      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - C6   |
| 90 | DVD       | NUM  | 3      | 187      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - D    |
| 83 | DVL       | NUM  | 3      | 166      |        |          | 'CRASH' DAMAGE DATA MAX DELTA V - L    |
| 81 | DVLAT     | NUM  | 2      | 161      |        |          | LATERAL COMPONENT OF DELTA V           |
| 80 | DVLONG    | NUM  | 2      | 159      |        |          | LONGITUDINAL COMPONENT OF DELTA V      |
| 79 | DVTOTAL   | NUM  | 2      | 157      |        |          | TOTAL DELTA V                          |
| 82 | ENERGY    | NUM  | 3      | 163      |        |          | ENERGY ABSORPTION                      |
| 53 | EXTENT1   | CHAR | 2      | 94       |        |          | DEFORMATION EXTENT GUIDE (HIGHEST)     |
| 54 | EXTENT2   | CHAR | 2      | 96       |        |          | DEFORMATION EXTENT GUIDE(2ND HIGHEST)  |
| 55 | EXTENT3   | CHAR | 2      | 98       |        |          | DEFORMATION EXTENT GUIDE(3RD HIGHEST)  |
| 56 | EXTENT4   | CHAR | 2      | 100      |        |          | DEFORMATION EXTENT GUIDE(4TH HIGHEST)  |
| 68 | FIRE      | NUM  | 2      | 133      |        |          | FIRE OCCURRENCE                        |
| 37 | GAD1      | CHAR | 1      | 78       |        |          | DEFORMATION LOCATION (HIGHEST)         |
| 38 | GAD2      | CHAR | 1      | 79       |        |          | DEFORMATION LOCATION(2ND HIGHEST)      |
| 39 | GAD3      | CHAR | 1      | 80       |        |          | DEFORMATION LOCATION(3RD HIGHEST)      |
| 40 | GAD4      | CHAR | 1      | 81       |        |          | DEFORMATION LOCATION(4TH HIGHEST)      |
| 24 | GVWR      | NUM  | 2      | 52       |        |          | GROSS VEHICLE WEIGHT RATING            |
| 74 | HAZCARGO  | NUM  | 2      | 145      |        |          | HAZARDOUS CARGO                        |
| 69 | IMPTYPE   | NUM  | 2      | 135      |        |          | TYPE OF MOST SEVERE IMPACT             |
| 72 | JACKKNIFE | NUM  | 2      | 141      |        |          | JACKKNIFE INVOLVEMENT                  |
| 67 | MAGINTRU  | NUM  | 2      | 131      |        |          | MAGNITUDE OF INTRUSION                 |



NASS 1983 ANALYSIS FILE CREATION

| 102 | VINLNGTH | NUM | VIN LENGTH                   |
|-----|----------|-----|------------------------------|
| 103 | VTREAT   | NUM | MAXIMUM TREATMENT (THIS VEH) |
| 108 | WHEELING | NUM | WHEELBASE LONG               |
| 107 | WHEELSHT | NUM | WHEELBASE SHORT              |

|   |     |
|---|-----|
| 2 | 213 |
| 2 | 215 |
| 8 | 237 |
| 8 | 229 |

|     |
|-----|
| 5.2 |
| 5.2 |

CONTENTS OF SAS DATA SET CASESIN.DRIVER

ALPHABETIC LIST OF VARIABLES

| #  | VARIABLE | TYPE | LENGTH | POSITION | FORMAT | INFORMAT | LABEL  |
|----|----------|------|--------|----------|--------|----------|--|
| 48 | ACCESS   | NUM  | 2      | 102      |        |          | ACCESS CONTROL                                   |
| 22 | ACC12MO  | NUM  | 2      | 50       |        |          | HOW MANY ACCIDENTS WITHIN PAST 12 MONTHS         |
| 33 | ALCIEST  | NUM  | 2      | 72       |        |          | MEASURED BLOOD ALCOHOL LEVEL                     |
| 51 | ALIGNMNT | NUM  | 2      | 110      |        |          | ROADWAY ALIGNMENT                                |
| 21 | AVOIDMAN | NUM  | 2      | 48       |        |          | ATTEMPTED AVOIDANCE MANEUVER                     |
| 14 | BMCSREG  | NUM  | 2      | 34       |        |          | BUREAU OF MOTOR CARRIER SAFETY REGULATED         |
| 2  | CASEID   | CHAR | 4      | 6        |        |          | CASE NUMBER - STRATIFICATION                     |
| 3  | CASENO   | NUM  | 3      | 10       |        |          | SEQUENCE NUMBER                                  |
| 15 | DRCLASS  | NUM  | 2      | 36       |        |          | DRIVER'S CLASSIFICATION                          |
| 32 | DRINKING | NUM  | 2      | 70       |        |          | ALCOHOL PRESENCE                                 |
| 59 | DRIRF1   | NUM  | 2      | 124      |        |          | 1ST OTHER DRIVER RELATED FACTOR                  |
| 60 | DRIRF2   | NUM  | 2      | 126      |        |          | 2ND OTHER DRIVER RELATED FACTOR                  |
| 61 | DRIRF3   | NUM  | 2      | 128      |        |          | 3RD OTHER DRIVER RELATED FACTOR                  |
| 9  | DRPRES   | NUM  | 2      | 22       |        |          | DRIVER PRESENCE IN VEHICLE                       |
| 16 | DRTRAIN  | NUM  | 2      | 38       |        |          | DRIVER EDUCATION                                 |
| 62 | ENVRF1   | NUM  | 2      | 130      |        |          | 1ST OTHER ENVIRONMENTAL RELATED FACTOR           |
| 63 | ENVRF2   | NUM  | 2      | 132      |        |          | 2ND OTHER ENVIRONMENTAL RELATED FACTOR           |
| 64 | ENVRF3   | NUM  | 2      | 134      |        |          | 3RD OTHER ENVIRONMENTAL RELATED FACTOR           |
| 57 | FREQDRIV | NUM  | 2      | 40       |        |          | FREQUENCY DRIVING ROAD                           |
| 53 | GRADE    | NUM  | 2      | 112      |        |          | ROADWAY PROFILE                                  |
| 45 | LANES    | NUM  | 2      | 96       |        |          | NUMBER OF TRAVEL LANES                           |
| 35 | LCOMPL   | NUM  | 2      | 76       |        |          | COMPLIANCE WITH LICENSE RESTRICTIONS             |
| 38 | LREST    | NUM  | 2      | 82       |        |          | LICENSE RESTRICTION                              |
| 39 | LRESTADD | NUM  | 2      | 84       |        |          | ADDITIONAL LICENSE RESTRICTION                   |
| 34 | LSOURCE  | NUM  | 2      | 74       |        |          | LICENSE SOURCE                                   |
| 36 | LSTATUS  | NUM  | 2      | 78       |        |          | LICENSE STATUS THIS CLASS OF VEHICLE             |
| 37 | LTYPCOMP | NUM  | 2      | 80       |        |          | DRIVER LICENSE TYPE COMPLIANCE                   |
| 46 | MEDIANT  | NUM  | 2      | 98       |        |          | MEDIAN TYPE                                      |
| 47 | MEDIANW  | NUM  | 2      | 100      |        |          | MEDIAN WIDTH                                     |
| 12 | MILETOT  | NUM  | 3      | 29       |        |          | TOTAL MILEAGE ALL VEHICLES                       |
| 11 | MILEVEH  | NUM  | 3      | 26       |        |          | ESTIMATED MILEVEH THIS VEHICLE                   |
| 10 | MONDRIVE | NUM  | 2      | 24       |        |          | MONTHS DRIVING EXP. THIS CLASS VEHICLE           |
| 66 | NATWGT   | NUM  | 4      | 140      | 9.3    |          | NATIONAL INFLATION FACTOR                        |
| 44 | OCUPANTS | NUM  | 2      | 20       |        |          | NUMBER OF OCCUPANTS THIS MOTOR VEHICLE           |
| 42 | PREVDWI  | NUM  | 2      | 94       |        |          | PREVIOUS D.W.I. CONVICTIONS                      |
| 41 | PREVOOTH | NUM  | 2      | 90       |        |          | PREVIOUS MOVING VIOLATIONS CONVICTIONS           |
| 40 | PREVSPD  | NUM  | 2      | 88       |        |          | PREVIOUS SPEEDING CONVICTIONS                    |
| 43 | PREVSUS  | NUM  | 2      | 86       |        |          | PREVIOUS SUSPENSIONS AND REVOCATIONS             |
| 20 | PRIOREAR | NUM  | 2      | 46       |        |          | 3RD TO LAST ACTION PRIOR TO AVOID. MAN.          |
| 18 | PRIORLAT | NUM  | 2      | 42       |        |          | LAST TO LAST ACTION PRIOR TO AVOIDANCE MANEUVERS |
| 19 | PRIORMID | NUM  | 2      | 44       |        |          | 2ND TO LAST ACTION PRIOR TO AVOID. MAN.          |
| 1  | PSU      | NUM  | 2      | 4        |        |          | PSU NUMBER                                       |
| 65 | PSUWGT   | NUM  | 4      | 136      | 9.3    |          | PSU INFLATION FACTOR                             |
| 67 | RATWGT   | NUM  | 4      | 144      | 9.3    |          | RATIO ADJUSTMENT                                 |
| 5  | RECNO    | NUM  | 2      | 14       |        |          | RECORD NUMBER                                    |
| 50 | SHOULDLT | NUM  | 2      | 106      |        |          | LEFT SHOULDER TYPE                               |
| 51 | SHOULDRT | NUM  | 2      | 108      |        |          | RIGHT SHOULDER TYPE                              |

NASS 1983 ANALYSIS FILE CREATION

17:23 MONDAY, JUNE 4, 1984

|    |          |      |   |     |  |
|----|----------|------|---|-----|--|
| 58 | SPLIMIT  | NUM  | 2 | 122 | SPEED LIMIT                              |
| 4  | STRATIF  | CHAR | 1 | 13  | INITIAL STRATIFICATION                   |
| 55 | SURCOND  | NUM  | 2 | 116 | ROADWAY SURFACE CONDITION                |
| 54 | SURTYPE  | NUM  | 2 | 114 | ROADWAY SURFACE TYPE                     |
| 56 | TRAFCONT | NUM  | 2 | 118 | TRAFFIC CONTROLS                         |
| 49 | TRAFFLOW | NUM  | 2 | 104 | TRAFFICWAY FLOW                          |
| 57 | TRCFLCT  | NUM  | 2 | 120 | TRAFFIC CONTROL DEVICE FUNCTIONING       |
| 13 | TYPEOP   | NUM  | 2 | 32  | TYPE OF OPERATION OR CARRIER             |
| 7  | VEHNO    | NUM  | 2 | 18  | VEHICLE NUMBER                           |
| 6  | VERSION  | NUM  | 2 | 16  | VERSION NUMBER                           |
| 28 | VIOLCLOS | NUM  | 2 | 62  | FOLLOWING TOO CLOSELY VIOLATION          |
| 24 | VIOLDWI  | NUM  | 2 | 54  | D.M.I. VIOLATION CHARGED                 |
| 30 | VILOTH   | NUM  | 2 | 66  | OTHER VIOLATION CHARGED                  |
| 25 | VIOLRECK | NUM  | 2 | 56  | RECKLESS DRIVING VIOLATION CHARGED       |
| 27 | VIOLROW  | NUM  | 2 | 60  | FAILURE TO YIELD R-0-W VIOLATION         |
| 29 | VIOLSIGN | NUM  | 2 | 64  | RUNNING TRAFFIC SIG./STOP SIGN VIOLATION |
| 23 | VIOLSP   | NUM  | 2 | 52  | SPEEDING VIOLATION CHARGED               |
| 26 | VIOLSUSP | NUM  | 2 | 58  | DRIVING W/SUSP./REV. LICENSE CHARGED     |
| 31 | VIOLUNK  | NUM  | 2 | 68  | UNKNOWN VIOLATION CHARGED                |

NASS 1983 ANALYSIS FILE CREATION  
 CONTENTS OF SAS DATA SET CASESIN.OCCUPANT

| ALPHABETIC LIST OF VARIABLES |          |      |        |          |        |   |
|------------------------------|----------|------|--------|----------|--------|---|
| #                            | VARIABLE | TYPE | LENGTH | POSITION | FORMAT | INFORMAT LABEL                          |
| 9                            | AGE      | NUM  | 2      | 22       |        | AGE OF PERSON                           |
| 52                           | AIS1     | NUM  | 2      | 86       |        | AIS SEVERITY (FIRST)                    |
| 53                           | AIS2     | NUM  | 2      | 88       |        | AIS SEVERITY (SECOND)                   |
| 54                           | AIS3     | NUM  | 2      | 90       |        | AIS SEVERITY (THIRD)                    |
| 55                           | AIS4     | NUM  | 2      | 92       |        | AIS SEVERITY (FOURTH)                   |
| 56                           | AIS5     | NUM  | 2      | 94       |        | AIS SEVERITY (FIFTH)                    |
| 57                           | AIS6     | NUM  | 2      | 96       |        | AIS SEVERITY (SIXTH)                    |
| 34                           | ASPECT1  | CHAR | 1      | 68       |        | ASPECT (FIRST)                          |
| 35                           | ASPECT2  | CHAR | 1      | 69       |        | ASPECT (SECOND)                         |
| 36                           | ASPECT3  | CHAR | 1      | 70       |        | ASPECT (THIRD)                          |
| 37                           | ASPECT4  | CHAR | 1      | 71       |        | ASPECT (FOURTH)                         |
| 38                           | ASPECT5  | CHAR | 1      | 72       |        | ASPECT (FIFTH)                          |
| 39                           | ASPECT6  | CHAR | 1      | 73       |        | ASPECT (SIXTH)                          |
| 25                           | AUTAVAIL | NUM  | 2      | 55       |        | PASSIVE RESTRAINT SYSTEM - AVAILABILITY |
| 26                           | AUTFNCT  | NUM  | 2      | 57       |        | PASSIVE RESTRAINT SYSTEM - FUNCTION     |
| 28                           | BODYREG1 | CHAR | 1      | 61       |        | OIC BODY REGION (FIRST)                 |
| 29                           | BODYREG2 | CHAR | 1      | 62       |        | OIC BODY REGION (SECOND)                |
| 30                           | BODYREG3 | CHAR | 1      | 63       |        | OIC BODY REGION (THIRD)                 |
| 31                           | BODYREG4 | CHAR | 2      | 64       |        | OIC BODY REGION (FOURTH)                |
| 32                           | BODYREG5 | CHAR | 1      | 66       |        | OIC BODY REGION (FIFTH)                 |
| 33                           | BODYREG6 | CHAR | 1      | 67       |        | OIC BODY REGION (SIXTH)                 |
| 2                            | CASEID   | CHAR | 4      | 6        |        | CASE NUMBER - STRATIFICATION            |
| 3                            | CASENO   | NUM  | 3      | 10       |        | SEQUENCE NUMBER                         |
| 71                           | DEATHDT  | NUM  | 2      | 124      |        | TIME OF DEATH                           |
| 17                           | EJCTAREA | NUM  | 2      | 39       |        | EJECTION AREA                           |
| 18                           | EJCTMED  | NUM  | 2      | 41       |        | EJECTION MEDIUM                         |
| 16                           | EJECTION | NUM  | 2      | 37       |        | EJECTION                                |
| 15                           | ENTRAP   | NUM  | 2      | 35       |        | ENTRAPMENT                              |
| 11                           | HEIGHT   | NUM  | 2      | 26       |        | HEIGHT OF PERSON                        |
| 21                           | HOSPSTAY | NUM  | 2      | 47       |        | HOSPITAL STAY                           |
| 70                           | INJSEV   | NUM  | 2      | 122      |        | INJURY SEVERITY (POLICE RATING)         |
| 58                           | INJSOU1  | NUM  | 2      | 98       |        | INJURY SOURCE (FIRST)                   |
| 59                           | INJSOU2  | NUM  | 2      | 100      |        | INJURY SOURCE (SECOND)                  |
| 60                           | INJSOU3  | NUM  | 2      | 102      |        | INJURY SOURCE (THIRD)                   |
| 62                           | INJSOU4  | NUM  | 2      | 104      |        | INJURY SOURCE (FOURTH)                  |
| 63                           | INJSOU5  | NUM  | 2      | 106      |        | INJURY SOURCE (FIFTH)                   |
| 63                           | INJSOU6  | NUM  | 2      | 108      |        | INJURY SOURCE (SIXTH)                   |
| 27                           | INTREL   | NUM  | 2      | 59       |        | RELATION OF INTERVIEWEE TO OCC/PED/NM   |
| 72                           | ISS      | NUM  | 2      | 126      |        | ISS                                     |
| 40                           | LESION1  | CHAR | 1      | 74       |        | LESION (FIRST)                          |
| 41                           | LESION2  | CHAR | 1      | 75       |        | LESION (SECOND)                         |
| 42                           | LESION3  | CHAR | 1      | 76       |        | LESION (THIRD)                          |
| 43                           | LESION4  | CHAR | 1      | 77       |        | LESION (FOURTH)                         |
| 44                           | LESION5  | CHAR | 1      | 78       |        | LESION (FIFTH)                          |
| 45                           | LESION6  | CHAR | 1      | 79       |        | LESION (SIXTH)                          |
| 73                           | MAIS     | NUM  | 2      | 128      |        | MAXIMUM KNOWN OCC/PED/NM AIS            |
| 23                           | MANAVAIL | NUM  | 2      | 51       |        | ACTIVE RESTRAINT SYSTEM - AVAILABILITY  |
| 24                           | MANUSE   | NUM  | 2      | 53       |        | ACTIVE RESTRAINT SYSTEM - USE           |

NASS 1983 ANALYSIS FILE CREATION

| 19            | 75                        | 8               | 1          | 74                   | 76               | 5             | 13              | 14                       | 10            | 64                     | 65                      | 66                     | 67                      | 68                     | 69                     | 4                      | 46                   | 47                    | 48                   | 49                    | 50                   | 51                   | 20                    | 7              | 6              | 12               | 22                |
|---------------|---------------------------|-----------------|------------|----------------------|------------------|---------------|-----------------|--------------------------|---------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------|----------------|------------------|-------------------|
| MEDSTA        | NATWGT                    | OCCHO           | PSU        | PSUMGT               | RATWGT           | RECNO         | ROLE            | SEATPOS                  | SEX           | SODAT1                 | SODAT2                  | SODAT3                 | SODAT4                  | SODAT5                 | SODAT6                 | STRATIF                | SYSORG1              | SYSORG2               | SYSORG3              | SYSORG4               | SYSORG5              | SYSORG6              | TREATMNT              | VEHNO          | VERSION        | WEIGHT           | WORKDAYS          |
| 2             | 4                         | 2               | 2          | 4                    | 4                | 2             | 2               | 2                        | 2             | 2                      | 2                       | 2                      | 2                       | 2                      | 2                      | 1                      | 1                    | 1                     | 1                    | 1                     | 1                    | 1                    | 2                     | 2              | 2              | 3                | 2                 |
| 43            | 134                       | 20              | 4          | 130                  | 138              | 14            | 31              | 33                       | 24            | 110                    | 112                     | 114                    | 116                     | 118                    | 120                    | 13                     | 80                   | 81                    | 82                   | 83                    | 84                   | 85                   | 45                    | 18             | 16             | 28               | 49                |
| MEDIUM STATUS | NATIONAL INFLATION FACTOR | OCCUPANT NUMBER | PSU NUMBER | PSU INFLATION FACTOR | RATIO ADJUSTMENT | RECORD NUMBER | OCCUPANT'S ROLE | OCCUPANT'S SEAT POSITION | SEX OF PERSON | SOURCE OF DATA (FIRST) | SOURCE OF DATA (SECOND) | SOURCE OF DATA (THIRD) | SOURCE OF DATA (FOURTH) | SOURCE OF DATA (FIFTH) | SOURCE OF DATA (SIXTH) | INITIAL STRATIFICATION | SYSTEM/ORGAN (FIRST) | SYSTEM/ORGAN (SECOND) | SYSTEM/ORGAN (THIRD) | SYSTEM/ORGAN (FOURTH) | SYSTEM/ORGAN (FIFTH) | SYSTEM/ORGAN (SIXTH) | TREATMENT - MORTALITY | VEHICLE NUMBER | VERSION NUMBER | WEIGHT OF PERSON | WORKING DAYS LOST |

APPENDIX A

DATA COLLECTION FORMS



Accident Data

1 Primary Sampling Unit Number:                  

2 Case Number - Stratification:                                    

3 Record Number:                  

4 Transaction Code:                  

5 Version Number:                  

6 Investigator I.D. Number:                  

IDENTIFICATION

7 Date (Month, Day, Year)                   /                   / 8 3

11 12 13 14 15 16

8 Final Stratification  
Mark the box which indicates this accident's final stratum.  
Code the box's letter in the space provided.

| ACCIDENT TYPE         | Most Severe Police Reported Injury |   |              |                 |
|-----------------------|------------------------------------|---|--------------|-----------------|
|                       | K                                  | A | B, C, O or U |                 |
|                       |                                    |   | TRANS-PORTED | NONTRANS-PORTED |
| Ped or Nonmotorist    | A                                  | B | C            | D               |
| Motorcycle            | E                                  | F | G            | H               |
| Medium or Heavy Truck | J                                  | K | L            | M               |
| Light Truck or Van    | TOWAWAY                            | N | P            | Q               |
|                       | NONTOWAWAY                         | N | P            | Y               |
| Other Motor Vehicle   | TOWAWAY                            | S | T            | V               |
|                       | NONTOWAWAY                         | S | T            | Z               |

9 Sampling Interval:                  

(NOTE: Code the result from the computer sampling program.)

18 19 20 21 22

10 First Harmful Event

Non-Collision

(01) Overturn

(02) Fire or explosion

(03) Immersion

(04) Gas inhalation

(05) Fell from vehicle

(06) Injured in vehicle

(07) Other non-collision \_\_\_\_\_

Collision With

(08) Pedestrian

(09) Pedalcyclist

(10) Railway train

(11) Animal

(12) Motor vehicle in transport (same roadway)

(13) Motor vehicle in transport (other roadway)

(14) Parked motor vehicle

(15) Other type nonmotorist \_\_\_\_\_

(16) Thrown or falling object

(17) Boulder

(18) Other object (not fixed) \_\_\_\_\_

Collision with Fixed Object

(19) Building

(20) Impact attenuator/Crash Cushion

(21) Bridge pier or abutment

(22) Bridge parapet end

(23) Bridge rail

(24) Guardrail

(25) Concrete traffic barrier

(26) Other longitudinal barrier \_\_\_\_\_

(27) Highway/Traffic sign post

(28) Overhead sign support

(29) Luminaire/Light support

(30) Utility pole

(31) Other post, pole, or support \_\_\_\_\_

(32) Culvert

(33) Curb

(34) Ditch

(35) Embankment - earth

(36) Embankment - rock, stone or concrete

(38) Fence (wooden, wire, chain link, etc.)

(39) Wall (stone, rock, metal, etc.)

(40) Fire hydrant

(41) Shrubbery

(42) Tree

(43) Other fixed object \_\_\_\_\_

(44) Pavement surface irregularity (pothole, grooved, grates)

(99) Unknown

\*Code 37 is omitted to maintain consistency with the Fatal Accident Reporting System (FARS)

11. Manner of Collision (Based on First Harmful Event)  
 \_\_\_ (0) Not collision with vehicle in transport  
 \_\_\_ (1) Rear-end  
 \_\_\_ (2) Head-on  
 \_\_\_ (3) Rear-to-rear  
 \_\_\_ (4) Angle  
 \_\_\_ (5) Sideswipe, same direction  
 \_\_\_ (6) Sideswipe, opposite direction  
 \_\_\_ (9) Unknown 25

12. Relation to Roadway (location of first harmful event)  
 \_\_\_ (1) On roadway  
 \_\_\_ (2) On shoulder  
 \_\_\_ (3) In median  
 \_\_\_ (4) On roadside  
 \_\_\_ (5) Outside right-of-way  
 \_\_\_ (6) Off roadway – location unknown  
 \_\_\_ (7) In parking lane  
 \_\_\_ (8) Gore  
 \_\_\_ (9) Unknown 26

13. Number of Vehicle Forms Submitted  
 \_\_\_\_\_ Code only the number of motor vehicles in transport for which a VEHICLE FORM was submitted. 27 28

14. Number of Pedestrian & Nonmotorist Forms Submitted  
 \_\_\_\_\_ Code only the number of pedestrians and/or non-motorists for which a PEDESTRIAN & NONMOTORIST FORM was submitted. 29 30

15. Police Reported Accident Severity  
 \_\_\_ (0) No injury (0)  
 \_\_\_ (1) Possible injury (C)  
 \_\_\_ (2) Nonincapacitating injury (B)  
 \_\_\_ (3) Incapacitating injury (A)  
 \_\_\_ (4) Killed (K)  
 \_\_\_ (5) Injury, severity unknown  
 \_\_\_ (6) Died prior to accident  
 \_\_\_ (9) Unknown 31

16. Hit and Run  
 \_\_\_ (0) No hit-and-run  
 \_\_\_ (1) Hit motor vehicle (in transport)  
 \_\_\_ (2) Hit pedestrian or nonmotorist  
 \_\_\_ (3) Hit parked vehicle or object 32

**AMBIENT CONDITIONS**

17. Time  
 \_\_\_\_\_ : \_\_\_\_\_ Code reported military time of accident.  
 (NOTE: midnight = 2400)  
 \_\_\_ (9999) Unknown 33 34 35 36

18. Light conditions  
 \_\_\_ (1) Daylight  
 \_\_\_ (2) Dark  
 \_\_\_ (3) Dark, but lighted  
 \_\_\_ (4) Dawn  
 \_\_\_ (5) Dusk  
 \_\_\_ (9) Unknown 37

19. Atmospheric Conditions  
 \_\_\_ (1) No adverse atmospheric related driving conditions  
 \_\_\_ (2) Rain  
 \_\_\_ (3) Sleet  
 \_\_\_ (4) Snow  
 \_\_\_ (5) Fog  
 \_\_\_ (6) Rain and fog  
 \_\_\_ (7) Sleet and fog  
 \_\_\_ (8) Other (e.g., smog, smoke, blowing sand or dust, etc.):  
 \_\_\_\_\_  
 \_\_\_ (9) Unknown 38

**ADMINISTRATIVE ITEMS**

20. Land Use  
 (NOTE Use FHWA required individual state definitions for the roadway segment on which the accident occurred.)  
 \_\_\_ (1) Urban  
 \_\_\_ (2) Rural  
 \_\_\_ (9) Unknown 39

21. Federal Aid System  
 \_\_\_ (1) Interstate  
 \_\_\_ (2) Other federal aid primary  
 \_\_\_ (3) Federal aid secondary  
 \_\_\_ (4) Federal aid urban arterial  
 \_\_\_ (5) Federal aid urban collector  
 \_\_\_ (6) Nonfederal aid arterial  
 \_\_\_ (7) Nonfederal aid collector  
 \_\_\_ (8) Nonfederal aid local  
 \_\_\_ (9) Unknown 40

22. Class Trafficway  
 \_\_\_ (1) Interstate  
 \_\_\_ (2) Other U.S. Route  
 \_\_\_ (3) Other State Route  
 \_\_\_ (4) County Road  
 \_\_\_ (5) Local Street  
 \_\_\_ (8) Other \_\_\_\_\_  
 \_\_\_ (9) Unknown 41

|  |   |
|--|---|
| <p>23 Roadway Function Class</p> <p><input type="checkbox"/> (1) Principal arterial-interstate</p> <p><input type="checkbox"/> (2) Principal arterial-other urban freeway or expressway</p> <p><input type="checkbox"/> (3) Principal arterial-other</p> <p><input type="checkbox"/> (4) Minor arterial</p> <p><input type="checkbox"/> (5) Urban Collector</p> <p><input type="checkbox"/> (6) Major rural collector</p> <p><input type="checkbox"/> (7) Minor rural collector</p> <p><input type="checkbox"/> (8) Local road or street</p> <p><input type="checkbox"/> (9) Unknown</p>   | <p>29 Median Width</p> <p><input type="checkbox"/> (00) No median</p> <p>_____ Code actual measured value up to 96 feet</p> <p><input type="checkbox"/> (97) 97 feet and above</p> <p><input type="checkbox"/> (99) Unknown</p>   |
| <p>24 Relation to Junction</p> <p><input type="checkbox"/> (01) Non-junction</p> <p><input type="checkbox"/> (02) Three leg intersection</p> <p><input type="checkbox"/> (03) Four leg intersection</p> <p><input type="checkbox"/> (04) More than four leg intersection</p> <p><input type="checkbox"/> (05) Rotary or traffic circle</p> <p><input type="checkbox"/> (06) Intersection related</p> <p><input type="checkbox"/> (07) Channel</p> <p><input type="checkbox"/> (08) Area of merge/divergence related</p> <p><input type="checkbox"/> (09) Entrance or exit ramp</p> <p><input type="checkbox"/> (10) Interchange area</p> <p><input type="checkbox"/> (11) Driveway alley access related</p> <p><input type="checkbox"/> (12) Railroad grade crossing</p> <p><input type="checkbox"/> (13) Crossover related</p> <p><input type="checkbox"/> (99) Unknown</p> | <p>30. Access Control</p> <p><input type="checkbox"/> (1) Full</p> <p><input type="checkbox"/> (2) Partial</p> <p><input type="checkbox"/> (3) Uncontrolled</p> <p><input type="checkbox"/> (9) Unknown</p> <p>31. Trafficway Flow</p> <p><input type="checkbox"/> (0) Not physically divided (two way traffic)</p> <p><input type="checkbox"/> (1) Divided trafficway – median strip without traffic barrier</p> <p><input type="checkbox"/> (2) Divided trafficway – median strip with traffic barrier</p> <p><input type="checkbox"/> (3) One way trafficway</p> <p><input type="checkbox"/> (9) Unknown</p> |
| <p>25 School Bus Related</p> <p><input type="checkbox"/> (0) No</p> <p><input type="checkbox"/> (1) Yes</p>  | <p>32. Interchange Geometry</p> <p><input type="checkbox"/> (0) No interchange</p> <p><input type="checkbox"/> (1) Full diamond</p> <p><input type="checkbox"/> (2) Partial diamond</p> <p><input type="checkbox"/> (3) Full cloverleaf</p> <p><input type="checkbox"/> (4) Partial cloverleaf</p> <p><input type="checkbox"/> (5) Trumpet</p> <p><input type="checkbox"/> (6) Directional</p> <p><input type="checkbox"/> (8) Other: _____</p> <p><input type="checkbox"/> (9) Unknown</p>   |
| <p>26 Right or Left Turn on Red Related</p> <p><input type="checkbox"/> (0) No</p> <p>Right turn related</p> <p><input type="checkbox"/> (1) Yes – turn permitted</p> <p><input type="checkbox"/> (2) Yes – turn prohibited</p> <p>Left turn related</p> <p><input type="checkbox"/> (3) Yes – turn permitted</p> <p><input type="checkbox"/> (4) Yes – turn prohibited</p> <p><input type="checkbox"/> (9) Unknown</p>  | <p>33. Shoulder Presence</p> <p><input type="checkbox"/> (0) No shoulder</p> <p><input type="checkbox"/> (1) One shoulder</p> <p><input type="checkbox"/> (2) Two shoulders</p> <p><input type="checkbox"/> (9) Unknown</p>   |
| <p><b>ENVIRONMENTAL DATA</b></p>   |   |
| <p>27 Number of Travel Lanes</p> <p><input type="checkbox"/> (1) One                      <input type="checkbox"/> (5) Five</p> <p><input type="checkbox"/> (2) Two                      <input type="checkbox"/> (6) Six</p> <p><input type="checkbox"/> (3) Three                    <input type="checkbox"/> (7) Seven or more</p> <p><input type="checkbox"/> (4) Four                     <input type="checkbox"/> (9) Unknown</p>  | <p>34 Roadway Alignment</p> <p><input type="checkbox"/> (1) Straight</p> <p><input type="checkbox"/> (2) Curve</p> <p><input type="checkbox"/> (9) Unknown</p>  |
| <p>28 Median Type</p> <p><input type="checkbox"/> (0) No Median</p> <p><input type="checkbox"/> (1) Curbed</p> <p><input type="checkbox"/> (2) Positive Barrier</p> <p><input type="checkbox"/> (3) Unprotected</p> <p><input type="checkbox"/> (9) Unknown</p>  | <p>35 Roadway Profile</p> <p><input type="checkbox"/> (1) Level                      slope</p> <p><input type="checkbox"/> (2) Grade (<math>\geq 2\%</math>)            measurement</p> <p><input type="checkbox"/> (3) Hillcrest</p> <p><input type="checkbox"/> (4) Sag                        (<math>v = \text{_____}</math>) (<math>h = \text{_____}</math>)</p> <p><input type="checkbox"/> (9) Unknown</p>  |

|  |   |
|--|---|
| <p>36 Roadway Surface Type</p> <p><input type="checkbox"/> (1) Concrete</p> <p><input type="checkbox"/> (2) Bituminous</p> <p><input type="checkbox"/> (3) Brick or block</p> <p><input type="checkbox"/> (4) Slag, gravel or stone</p> <p><input type="checkbox"/> (5) Dirt</p> <p><input type="checkbox"/> (8) Other. _____</p> <p><input type="checkbox"/> (9) Unknown</p> <p style="text-align: right;">37</p> <p>37 Roadway Surface Condition</p> <p><input type="checkbox"/> (1) Dry</p> <p><input type="checkbox"/> (2) Wet</p> <p><input type="checkbox"/> (3) Snow or slush</p> <p><input type="checkbox"/> (4) Ice</p> <p><input type="checkbox"/> (5) Sand, dirt or oil</p> <p><input type="checkbox"/> (8) Other _____</p> <p><input type="checkbox"/> (9) Unknown</p> <p style="text-align: right;">38</p> <p>38. Traffic Control Device</p> <p><input type="checkbox"/> (00) No controls</p> <p><u>Not at railroad grade crossing</u></p> <p><u>Highway traffic signals</u></p> <p><input type="checkbox"/> (01) Traffic control signal (on colors) without pedestrian signal</p> <p><input type="checkbox"/> (02) Traffic control signal (on colors) with pedestrian signal</p> <p><input type="checkbox"/> (03) Traffic control signal (on colors) not known whether or not pedestrian signal</p> <p><input type="checkbox"/> (04) Flashing traffic control signal</p> <p><input type="checkbox"/> (05) Flashing beacon</p> <p><input type="checkbox"/> (06) Flashing highway traffic signal, type unknown or other than traffic control or beacon</p> <p><input type="checkbox"/> (07) Lane use control signal</p> <p><input type="checkbox"/> (08) Other highway traffic signal</p> <p><input type="checkbox"/> (09) Unknown highway traffic signal</p> <p><u>Regulatory signs</u></p> <p><input type="checkbox"/> (20) Stop sign</p> <p><input type="checkbox"/> (21) Yield sign</p> <p><input type="checkbox"/> (28) Other regulatory sign</p> <p><input type="checkbox"/> (29) Unknown type regulatory sign</p> <p><u>School Zone Signs</u></p> <p><input type="checkbox"/> (30) School speed limit sign</p> <p><input type="checkbox"/> (31) School advance or crossing sign</p> <p><input type="checkbox"/> (38) Other school related sign</p> <p><input type="checkbox"/> (39) Unknown type school zone sign</p> <p><u>Warning Signs</u></p> <p><input type="checkbox"/> (40) Warning sign</p> <p><u>Miscellaneous Controls</u></p> <p><input type="checkbox"/> (50) Officer, crossing guard, flagman, etc.</p> <p><u>At railroad grade crossing</u></p> <p><u>Active Devices</u></p> <p><input type="checkbox"/> (60) Gates</p> <p><input type="checkbox"/> (61) Flashing lights</p> <p><input type="checkbox"/> (62) Traffic control signal</p> <p><input type="checkbox"/> (63) Wigwags</p> <p><input type="checkbox"/> (64) Bells</p> <p><input type="checkbox"/> (68) Other train activated device</p> <p><input type="checkbox"/> (69) Active device, type unknown</p> | <p><u>Passive Devices</u></p> <p><input type="checkbox"/> (70) Crossbucks</p> <p><input type="checkbox"/> (71) Stop sign</p> <p><input type="checkbox"/> (72) Other railroad crossing sign</p> <p><input type="checkbox"/> (73) Special warning device – watchman, flagged by crew.</p> <p><input type="checkbox"/> (78) Other passive device</p> <p><input type="checkbox"/> (79) Passive device, type unknown</p> <p><u>Miscellaneous Controls</u></p> <p><input type="checkbox"/> (80) Grade crossing controlled type unknown</p> <p><u>Whether or not at railroad grade crossing</u></p> <p><input type="checkbox"/> (98) Other</p> <p><input type="checkbox"/> (99) Unknown</p> <p style="text-align: right;">59 60</p> <p>39. Traffic Control Device Functioning</p> <p><input type="checkbox"/> (0) No traffic Control</p> <p><input type="checkbox"/> (1) Traffic control not functioning</p> <p><input type="checkbox"/> (2) Traffic control functioning – functioning improperly</p> <p><input type="checkbox"/> (3) Traffic control functioning properly</p> <p><input type="checkbox"/> (9) Unknown</p> <p style="text-align: right;">61</p> <p>40. Accident Occurrence in School Zone</p> <p><input type="checkbox"/> (0) No</p> <p><input type="checkbox"/> (1) Yes</p> <p><input type="checkbox"/> (9) Unknown</p> <p style="text-align: right;">62</p> <p>41. Speed Limit</p> <p><input type="checkbox"/> (00) No statutory limit</p> <p>_____ m.p.h – Code actual posted or statutory speed limit.</p> <p><input type="checkbox"/> (99) Unknown</p> <p style="text-align: right;">63 64</p> <p>42. Restriction of Roadway at Scene (NOTE: The Restriction must have existed prior to this accident.)</p> <p><input type="checkbox"/> (0) No restrictions</p> <p><input type="checkbox"/> (1) Narrow bridge (as defined)</p> <p><input type="checkbox"/> (2) Previous accident on roadway</p> <p><input type="checkbox"/> (3) Maintenance, repair or construction activity on roadway.</p> <p><input type="checkbox"/> (4) Roadway immersion (e.g., standing water)</p> <p><input type="checkbox"/> (8) Other roadway obstruction.</p> <p>_____ (9) Unknown</p> <p style="text-align: right;">65</p> <p>(NOTE. If more than one restriction exists they should be coded in the order in which they are numbered.)</p> |
|--|---|

## LOG RESPONSES

### KEY TO SLIDE(S) QUALITY CONTROL CHECKS

#### SUBJECT QUALITY – EXTERIOR SLIDES

- (1) Good – Slide coverage is complete in that it includes all areas of all vehicles (whether or not damaged), it is possible to generate an accurate CDC and check damage measurements if applicable
- (2) Fair – Slide coverage is only broad enough (for at least one vehicle) to include the areas which were reportedly damaged (areas which are reportedly undamaged are not shown), it is possible to generate a reasonable CDC and check damage measurements if applicable.
- (3) Poor – Slide coverage excludes one or more areas of reported damage (for at least one vehicle), it is difficult to generate an accurate CDC and check damage measurements if applicable.

(0) No Slides

NOTE The location of the vehicles is considered at the time the slides were taken. If another vehicle or object obscured the damaged area so it could not be photographed, then that vehicle(s) should be categorized (1) or (2) based on the slides taken. If a damaged area could have been photographed but was not, then that vehicle(s) should be categorized (3).

#### SUBJECT QUALITY – INTERIOR SLIDES

- (1) Good – Slides show all areas of contact, probable contact and/or possible occupant contact areas; all intrusion, probable intrusion and/or possible intrusion areas; vehicle interior components (instrument panel, headers, roof areas, seat belts, etc ) and all occupant seated positions.
  - (2) Fair – Slides show only contact and intrusion areas or an overall view of the vehicle interior, probable areas of contact and/or intrusion, relevant vehicle interior components and relevant occupant seated positions are omitted for at least one vehicle.
  - (3) Poor – Obvious and/or probable contact and intrusion areas are not photographed for at least one vehicle
- (0) No Slides

#### SUBJECT QUALITY – SCENE SLIDES

- (1) Good – Slides show all necessary roadways and physical evidence including all objects contacted.
  - (2) Fair – Slides show general area of accident site and objects contacted; additional pictures would have been helpful.
  - (3) Poor – Slides do not adequately show area of impact or path of travel off-road, or at least one object definitely contacted was omitted.
- (0) No Slides

#### SLIDE QUALITY – FOR ALL PICTURES

- (1) Good – All areas in the vast majority of all of the slides are clearly defined; the subject has proper framing and exposure.
  - (2) Fair – All areas in most of the slides are distinguishable but some camera adjustment could have been made  
For example.
    - (a) underexposed (too dark)
    - (b) overexposed (too light)
    - (c) out of focus (usable slide)
  - (3) Poor – The area photographed in many of the slides cannot be seen. Examples of some failures are
    - (a) underexposed (too dark)
    - (b) overexposed (too light)
    - (c) out of focus (usable slide)
    - (d) flash not used
    - (e) flash reflection
    - (f) distance
- (0) No Slides

Accident Data

|   |  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
|---|--|--|-----------|---------------------------------------|-----------|---|-----------|--|-----------|---|-----------|---|-----------|-----------------------------------|-----------|-----------------------------------|-----------|-----------------------------------|-----------|-----------------------------------|-----------|
| <p>43 Additional Restriction of Roadway at Scene<br/>(NOTE See question 42 note above )</p> <p><input type="checkbox"/> (0) No additional Restrictions</p> <p><input type="checkbox"/> (2) Previous accident on roadway</p> <p><input type="checkbox"/> (3) Maintenance, repair or construction activity on roadway</p> <p><input type="checkbox"/> (4) Roadway immersion (e g , standing water)</p> <p><input type="checkbox"/> (5) More than two restrictions</p> <p><input type="checkbox"/> (8) Other roadway restriction</p> <hr/> <p><input type="checkbox"/> (9) Unknown</p> <p style="text-align: right;"><u>66</u></p> | <p style="text-align: center;"><b>SPECIAL STUDIES - INDICATORS</b></p> <p><i>Information Collected From This Accident As A Part of the Special Studies Subsystem</i></p> <p style="text-align: center;">  NO - Code 0 for each of questions 44 through 53         </p> <p>If YES - Check ( ✓ ) each of the studies from the list to the right that were indicated, code 1 for the checked studies and 0 for the studies not checked.</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">44. <input type="checkbox"/> SS6-Emergency Medical Service</td> <td style="text-align: right;"><u>67</u></td> </tr> <tr> <td>45. <input type="checkbox"/> SS7-Pole</td> <td style="text-align: right;"><u>68</u></td> </tr> <tr> <td>46. <input type="checkbox"/> SS8-Longitudinal Barrier</td> <td style="text-align: right;"><u>69</u></td> </tr> <tr> <td>47. <input type="checkbox"/> SS9-Crash Cushion</td> <td style="text-align: right;"><u>70</u></td> </tr> <tr> <td>48. <input type="checkbox"/> SS10-Pedestrian Typing</td> <td style="text-align: right;"><u>71</u></td> </tr> <tr> <td>49. <input type="checkbox"/> SS11-Honda Civic</td> <td style="text-align: right;"><u>72</u></td> </tr> <tr> <td>50. <input type="checkbox"/> SS12</td> <td style="text-align: right;"><u>73</u></td> </tr> <tr> <td>51. <input type="checkbox"/> SS13</td> <td style="text-align: right;"><u>74</u></td> </tr> <tr> <td>52. <input type="checkbox"/> SS14</td> <td style="text-align: right;"><u>75</u></td> </tr> <tr> <td>53. <input type="checkbox"/> SS15</td> <td style="text-align: right;"><u>76</u></td> </tr> </table> <p><b>NOTE:</b> Leave blank any special studies which are not in effect for this PSU at the time this case is sampled.</p> | 44. <input type="checkbox"/> SS6-Emergency Medical Service | <u>67</u> | 45. <input type="checkbox"/> SS7-Pole | <u>68</u> | 46. <input type="checkbox"/> SS8-Longitudinal Barrier | <u>69</u> | 47. <input type="checkbox"/> SS9-Crash Cushion | <u>70</u> | 48. <input type="checkbox"/> SS10-Pedestrian Typing | <u>71</u> | 49. <input type="checkbox"/> SS11-Honda Civic | <u>72</u> | 50. <input type="checkbox"/> SS12 | <u>73</u> | 51. <input type="checkbox"/> SS13 | <u>74</u> | 52. <input type="checkbox"/> SS14 | <u>75</u> | 53. <input type="checkbox"/> SS15 | <u>76</u> |
| 44. <input type="checkbox"/> SS6-Emergency Medical Service  | <u>67</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 45. <input type="checkbox"/> SS7-Pole   | <u>68</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 46. <input type="checkbox"/> SS8-Longitudinal Barrier   | <u>69</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 47. <input type="checkbox"/> SS9-Crash Cushion  | <u>70</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 48. <input type="checkbox"/> SS10-Pedestrian Typing   | <u>71</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 49. <input type="checkbox"/> SS11-Honda Civic   | <u>72</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 50. <input type="checkbox"/> SS12   | <u>73</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 51. <input type="checkbox"/> SS13   | <u>74</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 52. <input type="checkbox"/> SS14   | <u>75</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |
| 53. <input type="checkbox"/> SS15   | <u>76</u>  |  |           |                                       |           |   |           |  |           |   |           |   |           |                                   |           |                                   |           |                                   |           |                                   |           |

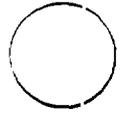
| FORMS: For Team Use      |   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|--------------------------|---|-------------------|--------------------------|-----|------|------|---------|--------|----------|---------|---------------|-----------------|----|----|----|----|----|----|----|----|
| Police                   | Accident  | Collision Diagram | Pedestrian & Nonmotorist |     |      |      | Vehicle | Driver | Occupant | Medical | CRASH Summary | Slides (Number) |    |    |    |    |    |    |    |    |
| Required                 | 1   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
| Include                  |   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
| COMPLETED BY TEAM        |   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
| 1                        | Primary Sampling Unit Number  |                   |                          |     |      |      | 1       | 2      |          |         |               |                 |    |    |    |    |    |    |    |    |
| 2                        | Case Number - Stratification  |                   |                          |     |      |      | 3       | 4      | 5        | 6       |               |                 |    |    |    |    |    |    |    |    |
| 3                        | Record Number   |                   |                          |     |      |      |         |        |          |         | 7             |                 |    |    |    |    |    |    |    |    |
| 4                        | Transaction Code  |                   |                          |     |      |      |         |        |          |         | 8             |                 |    |    |    |    |    |    |    |    |
| 5                        | Version Number  |                   |                          |     |      |      |         |        |          |         | 6             | 9               |    |    |    |    |    |    |    |    |
| 6                        | Investigator I.D. Number  |                   |                          |     |      |      |         |        |          |         |               | 10              |    |    |    |    |    |    |    |    |
| 7                        | Date of Accident  |                   |                          |     |      |      | 8       | 9      | 10       | 11      | 12            | 13              | 14 | 15 | 16 |    |    |    |    |    |
| 8                        | Date Sampled (listed)   |                   |                          |     |      |      | 17      | 18     | 19       | 20      | 21            | 22              | 23 | 24 | 25 | 26 | 27 | 28 |    |    |
| 9                        | Date Scene Field Work Completed   |                   |                          |     |      |      | 23      | 24     | 25       | 26      | 27            | 28              | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 10                       | Completing Person   |                   |                          |     |      |      |         |        |          |         |               | 29              |    |    |    |    |    |    |    |    |
| 11                       | Status of Accident Diagram  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) Scene not located Reason _____  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (2) Scene located and roadway data mapped on sketch but insufficient data even to produce a scaled diagram of the collision events.                     |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (3) Diagram completed   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 30 |
| 12                       | Date Case Released to Zone Center   |                   |                          |     |      |      | 31      | 32     | 33       | 34      | 35            | 36              |    |    |    |    |    |    |    |    |
| 13                       | Case Status   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) Case Complete - No Updates Required   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (2) Case to be Updated  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (3) Case Dropped Reason _____   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 37 |
| 14                       | Are Special Studies Applicable (If No code "0" If Yes code "1")   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | SS6   | SS7               | SS8                      | SS9 | SS10 | SS11 | SS12    | SS13   | SS14     | SS15    |               |                 |    |    |    |    |    |    |    |    |
|                          | 38  | 39                | 40                       | 41  | 42   | 43   | 44      | 45     | 46       | 47      |               |                 |    |    |    |    |    |    |    |    |
| COMPLETED BY ZONE CENTER |   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
| 15                       | Date Hardcopy Received at Zone Center   |                   |                          |     |      |      | 48      | 49     | 50       | 51      | 52            | 53              |    |    |    |    |    |    |    |    |
| 16                       | Type of Review  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) All variables (or reviewed)   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (2) Key variables (or not reviewed)   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 54 |
| 17                       | Date Review Completed   |                   |                          |     |      |      |         |        |          |         |               |                 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 |
| 18                       | Reviewed By   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
| 19                       | Case Status   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) Complete ___ (2) Not complete   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 63 |
| 20                       | Date Case released to Master File   |                   |                          |     |      |      |         |        |          |         |               |                 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 |
|                          | (See back of page 4 for responses to questions 21-26)   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
| 21                       | Subject Quality - Scene Slides  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 70 |
| 22                       | Slide Quality - Scene Slides  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 71 |
| 23                       | Subject Quality - Vehicle Interior Slides   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 72 |
| 24                       | Slide Quality - Vehicle Interior Slides   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 73 |
| 25                       | Subject Quality - Vehicle Exterior Slides   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 74 |
| 26                       | Slide Quality - Vehicle Exterior Slides   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 75 |
| 27                       | Physical Evidence Documentation   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (0) No physical evidence present at scene   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | Yes-physical evidence visible in slides or noted by investigator  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) Complete - all physical evidence (skidmarks, gouges, fluid spills, contacted objects, etc.) is documented using standard investigator techniques    |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (2) Partial - Documentation is adequate, however, certain physical evidence is incorrectly noted or overlooked  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (3) Incomplete - Documentation is poor Physical evidence is generally missed or incorrectly documented and contacted objects are overlooked             |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (4) None - no documentation of physical evidence  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 76 |
| 28                       | Vehicle Dynamics  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) Complete - Vehicle dynamics represent point of impact, headings and locations and final rest of vehicle(s)  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (2) Partial - Vehicle dynamics only represent an overview of the accident configuration Vehicle input is missing or improbable for at least one vehicle |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (3) Incomplete - Vehicle dynamics are incorrect, improbable or missing  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (4) Vehicle dynamics are approximated (or Y or Z Strata)  |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 77 |
| 29                       | Roadway Measurement/Furniture Documentation   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (1) Complete - All necessary roadway measurements and roadside furniture are documented   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (2) Partial - Only basic measurements and furniture are documented More information would have been helpful   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    |    |
|                          | ___ (3) Incomplete - Necessary measurements and or roadside furnitures are not documented   |                   |                          |     |      |      |         |        |          |         |               |                 |    |    |    |    |    |    |    | 78 |



National Accident Sampling System – Continuous Sampling Subsystem: Accident Collision Diagram

A C C I D E N T C O L L I S I O N D I A G R A M

Indicate



North



**Driver Data**

|   |  |
|---|--|
| <p>1 Primary Sampling Unit Number <span style="float: right;">1 2</span></p> <p>2 Case Number — Stratification <span style="float: right;">3 4 5 6</span></p> <p>3 Record Number <span style="float: right;">4 7</span></p> <p>4 Transaction Code <span style="float: right;">8</span></p> <p>5 Version Number <span style="float: right;">6 9</span></p> <p>6 Investigator I D Number <span style="float: right;">10</span></p>  | <p>11 Estimated Mileage This Vehicle<br/>(Estimated total mileage that driver has driven <u>in this</u> specific accident involved vehicle )</p> <p>_____ miles to the nearest 100</p> <p>- (001) Less than 150 miles</p> <p>- (997) 99,650 miles or more</p> <p>- (999) Unknown <span style="float: right;">18 19 20</span></p>   |
| <b>IDENTIFICATION</b>   |  |
| <p>7 Vehicle Number <span style="float: right;">11 12</span></p> <p>8 Number of Occupants This Motor Vehicle</p> <p>_____ occupant(s) — Code the actual number of persons (including the driver if present) that were occupants of this vehicle. The number of OCCUPANT FORMS does not have to equal this value</p> <p>- (97) 97 or more</p> <p>- (99) Unknown <span style="float: right;">13 14</span></p> <p>9 Driver Presence In Vehicle</p> <p>- (1) Driver Present</p> <p>- (2) Driver Not Present <span style="float: right;">15</span></p> <p>(NOTE. If no driver was present in this vehicle, indicate and subsequently leave blank the remaining non-environmental questions on this form. Do code the environmental elements. No OCCUPANT FORM for the driver is required. Remember, if the person who had been driving this motor vehicle prior to the accident was injured outside of this vehicle, that person is handled on the PEDESTRIAN &amp; NONMOTORIST FORM.)</p> | <p>12. Total Mileage All Vehicles<br/>(Past Twelve Months)</p> <p>_____ miles to the nearest 100</p> <p>- (001) Less than 150 miles</p> <p>- (997) 99,650 miles or more</p> <p>- (999) Unknown <span style="float: right;">21 22 23</span></p> <p>13. Type of Operation or Carrier<br/>(vehicle over 10,000 lbs GVWR)</p> <p>- (0) Noncommercial or not vehicle over 10,000 lbs. GVWR</p> <p>- (1) For hire / common carrier</p> <p>- (2) For hire / contract carrier</p> <p>- (3) Private carrier of property or passengers</p> <p>- (4) Carrier of ICC exempt commodities</p> <p>- (5) Foreign carrier</p> <p>- (6) Carrier of migrant workers</p> <p>- (7) U.S. mail carrier</p> <p>- (8) Other: _____</p> <p>- (9) Unknown <span style="float: right;">24</span></p> |
| <b>DRIVER INTERVIEW</b>   |  |
| <p>10 Months Driving Experience This Class of Vehicle<br/>(e.g., passenger car, light truck, motorcycle, etc.)</p> <p>_____ months — Code actual months of previous driving experience up to 60<br/>(NOTE 44 days or less equals 1 month, a month and a half equals 2 months )</p> <p>- (61) Greater than five years</p> <p>- (99) Unknown <span style="float: right;">16 17</span></p>   | <p>14. Federal Safety Regulated</p> <p>- (0) Noncommercial or not vehicle over 10,000 lbs. GVWR</p> <p>- (1) Motor carrier not subject to U.S. DOT (BMCS) regulations</p> <p>Motor carrier subject to U.S. DOT (BMCS) regulations</p> <p>- (2) Intercity operations</p> <p>- (3) Local pickup or delivery</p> <p>- (9) Unknown <span style="float: right;">25</span></p> <p>15 Driver's Classification</p> <p>- (0) Noncommercial or not vehicle over 10,000 lbs. GVWR</p> <p>- (1) Full time employee</p> <p>- (2) Part Time employee</p> <p>- (3) Owner operator</p> <p>- (4) Leased (from labor contractor)</p> <p>- (8) Other: _____</p> <p>- (9) Unknown <span style="float: right;">26</span></p>  |

**ACCIDENT DESCRIPTION INSTRUCTIONS**

Do not interrupt person during general description (narrative) unless he/she requests your assistance. Attempt to summarize the narrative while minimizing any disruptions of the person's internal logic. Specific questions may be asked later. Write these questions down in the space below or on the other side of the paper, prior to the interview.

SPECIFIC QUESTION \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**GENERAL DESCRIPTION OF ACCIDENT SEQUENCE**

(This represents a synopsis of an uninterrupted narrative by the driver.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Estimated Travel Speed**  
(NOTE: Record as obtained from interviewee in increments of 5 m.p.h., note information source e.g., speedometer, estimate, etc.)

Stopped                       Less than 5 m.p.h.  
 Actual speed (in increments)  
 Not applicable               Unknown

**Estimated Impact Speed**  
(NOTE: Record as obtained from interviewee in increments of 5 m.p.h., note information source e.g., speedometer estimate, etc.)

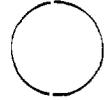
Stopped                       Less than 5 m.p.h.  
 Actual speed (in increments)  
 Not applicable               Unknown  
**INFORMATION SOURCE.**



**ACCIDENT DIAGRAM**

Draw a rough sketch of the accident sequence as described by the driver. Note impact and final rest positions carefully. If possible, relate these to some identifiable object in the area, and record vehicle and pedestrian or nonmotorist headings relative to an object, as well.

Indicate North



Any luggage or other cargo in vehicle when accident occurred? Estimated Weight: \_\_\_\_\_ lbs.

Describe: \_\_\_\_\_

Hazardous cargo in vehicle?  No  Yes If yes, specify \_\_\_\_\_

Present location of vehicle (if not yet inspected)? \_\_\_\_\_

**Did any of the Following Restrictions of the Road Exist Prior to the Accident**

- None
- Narrow bridge (as defined)
- Previous accident
- Maintenance repair, or construction activity on roadway
- Roadway immersion (standing water)
- Unknown

**Road Surface Condition**

- Dry
- Snow or slush
- Wet
- Ice
- Sand, dirt or oil
- Unknown

**16. Driver Education**

**Automobile or Light Truck Driver Training**

- (0) No formal driver training
- (1) In training at time of accident
- (2) High school driver training
- (3) Commercial driver training
- (8) Other formal driver training (e.g., college, military, etc.)
- (9) Unknown

**Motorcycle Driver Training**

- (0) No formal driver training
- (1) In training at time of accident
- (6) Motorcycle driver training
- (9) Unknown

**Heavy Vehicle Driver Training (>10,000 lbs. GVWR)**

- (0) No formal driver training
- (1) In training at time of accident
- (4) Truck driver training school
- (5) Motor carrier program – On-the-Job-Training
- (7) Vocational training (CETA, Job Corp. other government sponsored training, etc.)
- (8) Other formal driver training (e.g., college, military, etc.)
- (9) Unknown

27

**17. Frequency Driving Road**

- (1) Daily
- (2) Weekly
- (3) Monthly
- (4) Less than once a month
- (5) First time on road
- (9) Unknown

28

|                 |  |  |                          |     |     |
|-----------------|--|--|--------------------------|-----|-----|
| <p>18 19 20</p> | <p><b>Actions Prior to Avoidance Maneuvers</b></p> <p>(Code what the vehicle was doing prior to accident )</p> <p>___ Blank - Driver not present (D09)</p> <p>Movements essentially straight ahead</p> <p>___ (00) No actions</p> <p>___ (01) Moving straight, details unknown or no maneuvers</p> <p>___ (02) Straight ahead in proper direction, including curves in roadway</p> <p>___ (03) Overtaking other vehicle on left, left of center line</p> <p>___ (04) Overtaking other vehicle on left, right of center line (includes one-way roadways without center lines)</p> <p>___ (05) Overtaking another vehicle on right</p> <p>___ (06) Straight ahead in left turn lane</p> <p>___ (07) Straight ahead in right turn lane</p> <p>___ (08) Changing lanes to left</p> <p>___ (09) Changing lanes to right</p> <p>___ (10) Merging from left (roadway narrows on left)</p> <p>___ (11) Merging from right (roadway narrows on right)</p> <p>___ (12) On wrong side of roadway</p> <p>___ (13) In wrong direction on one-way roadway</p> <p>___ (14) Swerving to left</p> <p>___ (15) Swerving to right</p> <p>___ (16) Slowing or stopping</p> <p>___ (17) Skidding longitudinally</p> <p>___ (18) Skidding laterally</p> <p>___ (19) Spinning or yawing</p> <p>___ (20) Jackknifing</p> <p>___ (21) Stopped in traffic</p> <p>___ (22) Starting from stop</p> <p>___ (23) Increasing speed</p> <p><b>Turning Movements</b></p> <p>___ (30) Turning, details unknown</p> <p>___ (31) Left from left turn bay or special lane</p> <p>___ (32) Left from left (proper) lane</p> <p>___ (33) Left from other lane, legal</p> <p>___ (34) Left from other lane, illegal</p> <p>___ (35) Left from unknown lane</p> <p>___ (36) U-turn</p> <p>___ (37) Right from special lane</p> <p>___ (38) Right from right (proper) lane</p> <p>___ (39) Right from other lane, legal</p> <p>___ (40) Right from other lane, illegal</p> <p>___ (41) Right from unknown lane</p> | <p><b>Entering Traffic Lane</b></p> <p>___ (50) Entering traffic lane, details unknown</p> <p>___ (51) From entrance ramp on left</p> <p>___ (52) From entrance ramp on right</p> <p>___ (53) From shoulder on left</p> <p>___ (54) From shoulder on right</p> <p>___ (55) From parking space at left curb</p> <p>___ (56) From parking space at right curb</p> <p>___ (57) From driveway on left</p> <p>___ (58) From driveway on right</p> <p><b>Leaving Traffic Lane</b></p> <p>___ (60) Leaving traffic lane, details unknown</p> <p>___ (61) To exit ramp on left</p> <p>___ (62) To exit ramp on right</p> <p>___ (63) To shoulder on left</p> <p>___ (64) To shoulder on right</p> <p>___ (65) To parking space at left curb</p> <p>___ (66) To parking space at right curb</p> <p>___ (67) To driveway on left</p> <p>___ (68) To driveway on right</p> <p><b>Parking On Or Adjacent To Traffic Lane</b></p> <p>___ (70) Parking, details unknown</p> <p>___ (71) On left shoulder</p> <p>___ (72) On right shoulder</p> <p>___ (73) At left curb</p> <p>___ (74) At right curb</p> <p>___ (75) In traffic lane (on roadway) on left</p> <p>___ (76) In traffic lane (on roadway) on right</p> <p>___ (77) Double parking on left</p> <p>___ (78) Double parking on right</p> <p><b>Miscellaneous Movements</b></p> <p>___ (81) Backing in roadway</p> <p>___ (82) Backing from parking on left</p> <p>___ (83) Backing from parking on right</p> <p>___ (84) Backing across traffic</p> <p>___ (85) Backing on shoulder</p> <p>___ (86) Vehicle pushed by other vehicle</p> <p>___ (87) Vehicle pushed by pedestrian</p> <p>___ (88) Not in motion (parked or standing—driver in vehicle)</p> <p>___ (89) Loss of air pressure in tire (blowout or other)</p> <p>___ (98) Other _____</p> <p>___ (99) Unknown</p> |                          |     |     |
|                 |  |  |                          |     |     |
|                 |  | Inter-<br><u>viewee</u>  | Inves-<br><u>tigator</u> |     |     |
|                 | (18)   | — —  | — —                      | — — | — — |
|                 | (19)   | — —  | — —                      | — — | — — |
|                 | (20)   | — —  | — —                      | — — | — — |
|                 |  |  |                          | 29  | 30  |
|                 |  |  |                          | 31  | 32  |
|                 |  |  |                          | 33  | 34  |



|  |  |
|--|--|
| <p>38 Driver License Restrictions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (0) No restrictions</li> <li><input type="checkbox"/> (1) Corrective or contact lenses</li> <li><input type="checkbox"/> (2) Mechanical aid</li> <li><input type="checkbox"/> (3) Limited to daylight only</li> <li><input type="checkbox"/> (4) Automatic transmission</li> <li><input type="checkbox"/> (5) Outside mirror</li> <li><input type="checkbox"/> (6) Prosthetic aid</li> <li><input type="checkbox"/> (7) Limited to employment</li> <li><input type="checkbox"/> (8) Other restrictions</li> <li><input type="checkbox"/> (9) Unknown</li> </ul> <p style="text-align: right;">_____ <u>64</u></p> <p>39 Additional Driver License Restrictions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (0) No additional restriction</li> <li><input type="checkbox"/> (2) Mechanical aid</li> <li><input type="checkbox"/> (3) Limited to daylight only</li> <li><input type="checkbox"/> (4) Automatic transmission</li> <li><input type="checkbox"/> (5) Outside mirror</li> <li><input type="checkbox"/> (6) Prosthetic aid</li> <li><input type="checkbox"/> (7) Limited to employment</li> <li><input type="checkbox"/> (8) Other restrictions.</li> <li><input type="checkbox"/> (9) Unknown</li> </ul> <p style="text-align: right;">_____ <u>56</u></p> <p>Code in the space provided the actual number of recorded convictions/suspensions/accidents that occurred within the last three (3) years (as measured from the date of the accident.) If 8 or more convictions/suspensions or accidents, then code 8. If unknown, code 9</p> <p>(NOTE The coded value, 8, indicates that the actual recorded value was eight or more; be sure that the actual value is recorded in the space provided near the question number.)</p> <p>____ Unknown—Code 9 for each of questions 40 through 44.</p> <p>40. ____ Previous Speeding Convictions <span style="float: right;">_____ <u>56</u></span></p> <p>41. ____ Previous Other Harmful Moving Violation Convictions <span style="float: right;">_____ <u>57</u></span></p> <p>42. ____ Previous Driving While Intoxicated Convictions (or DUIL) <span style="float: right;">_____ <u>58</u></span></p> <p>43. ____ Previous Recorded Suspensions and Revocations <span style="float: right;">_____ <u>59</u></span></p> <p>44. ____ Previous Recorded Accidents <span style="float: right;">_____ <u>60</u></span></p> | <p style="text-align: center;"><b>ENVIRONMENTAL DATA</b></p> <p>45. Number of Travel Lanes</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (1) One</li> <li><input type="checkbox"/> (2) Two</li> <li><input type="checkbox"/> (3) Three</li> <li><input type="checkbox"/> (4) Four</li> <li><input type="checkbox"/> (5) Five</li> <li><input type="checkbox"/> (6) Six</li> <li><input type="checkbox"/> (7) Seven or more</li> <li><input type="checkbox"/> (9) Unknown</li> </ul> <p style="text-align: right;">_____ <u>61</u></p> <p>46. Median Type</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (0) No Median</li> <li><input type="checkbox"/> (1) Curbed</li> <li><input type="checkbox"/> (2) Positive Barrier</li> <li><input type="checkbox"/> (3) Unprotected</li> <li><input type="checkbox"/> (9) Unknown</li> </ul> <p style="text-align: right;">_____ <u>62</u></p> <p>47. Median Width</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (00) No median</li> <li>_____ Code actual measured value up to 96 feet.</li> <li><input type="checkbox"/> (97) 97 feet and above</li> <li><input type="checkbox"/> (99) Unknown</li> </ul> <p style="text-align: right;">_____ <u>63</u> _____ <u>64</u></p> <p>48. Access Control</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (1) Full</li> <li><input type="checkbox"/> (2) Partial</li> <li><input type="checkbox"/> (3) Uncontrolled</li> <li><input type="checkbox"/> (9) Unknown</li> </ul> <p style="text-align: right;">_____ <u>65</u></p> <p>49. Trafficway Flow</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> (0) Not physically divided (two way traffic)</li> <li><input type="checkbox"/> (1) Divided trafficway – median strip without traffic barrier</li> <li><input type="checkbox"/> (2) Divided trafficway – median strip with traffic barrier</li> <li><input type="checkbox"/> (3) One way trafficway</li> <li><input type="checkbox"/> (9) Unknown</li> </ul> <p style="text-align: right;">_____ <u>66</u></p> <p>50. Highway Performance Monitoring System (HPMS) Sample Number</p> <p>Code actual alphanumeric values. The first column identifies the county within the PSU. See coding manual for designated codes.</p> <p>_____ (0000000000) Not in HPMS sample</p> <p>_____ (9999999999) Unknown</p> <p style="text-align: center;">67 68 69 70 71 72 73 74 75 76 77 78 79</p> <p style="text-align: center;">(If the HPMS data is not available, leave blank)</p> |
| <p>WAS THE DRIVER'S VEHICLE IN A SCHOOL ZONE?<br/>(FOR USE IN CODING A40)</p> <p style="text-align: center;">Yes _____<br/>No _____</p>  |  |

51 52 Shoulder Type

|      |       |  |       |
|------|-------|--|-------|
| Left | Right |  |       |
| —    | —     | (0) No shoulder                                |       |
| —    | —     | (1) Surfaced 2-6 ft                            |       |
| —    | —     | (2) Surfaced > 6 ft                            |       |
| —    | —     | (3) Gravel or other granular material 2-6 ft   |       |
| —    | —     | (4) Gravel or other granular material > 6 ft   |       |
| —    | —     | (5) Natural earth, with or without turf 2-6 ft |       |
| —    | —     | (6) Natural earth, with or without turf > 6 ft | L R   |
| —    | —     | (9) Unknown                                    | 80 81 |

53 Roadway Alignment

— (1) Straight

— (2) Curve right

— (3) Curve left

— (9) Unknown

Length of Chord = \_\_\_\_\_ ft.

Middle Ordinate = \_\_\_\_\_ in.

82

54 Roadway Profile

— (1) Level (< 2% grade) slope measurement

— (2) Positive grade

— (3) Negative grade

— (4) Hillcrest (v = \_\_\_\_\_)/(h = \_\_\_\_\_)

— (5) Sag

— (9) Unknown

83

55 Roadway Surface Type

— (1) Concrete

— (2) Bituminous

— (3) Brick or block

— (4) Slag, gravel or stone

— (5) Dirt

— (8) Other \_\_\_\_\_

— (9) Unknown

84

56 Roadway Surface Condition

— (1) Dry

— (2) Wet

— (3) Snow or slush

— (4) Ice

— (5) Sand, dirt or oil

— (8) Other \_\_\_\_\_

— (9) Unknown

85

57 Speed Limit

— (00) No statutory limit

— m p h — Code actual posted or statutory speed limit

— (99) Unknown

86 87

58 Traffic Control Device Functioning

— (0) No traffic control

— (1) Traffic control not functioning

— (2) Traffic control functioning — functioning improperly

— (3) Traffic control functioning properly

— (9) Unknown

88

59 Traffic Control Device

— (00) No controls

Not at railroad grade crossing

Highway traffic signals

— (01) Traffic control signal (on colors) without pedestrian signal

— (02) Traffic control signal (on colors) with pedestrian signal

— (03) Traffic control signal (on colors) not known whether or not pedestrian signal

— (04) Flashing traffic control signal

— (05) Flashing beacon

— (06) Flashing highway traffic signal, type unknown or other than traffic control or beacon

— (07) Lane use control signal

— (08) Other highway traffic signal

— (09) Unknown highway traffic signal

Regulatory signs

— (20) Stop sign

— (21) Yield sign

— (28) Other regulatory sign

— (29) Unknown type regulatory sign

School Zone Signs

— (30) School speed limit sign

— (31) School advance or crossing sign

— (38) Other school related sign

— (39) Unknown type school zone sign

Warning Signs

— (40) Warning sign

Miscellaneous Controls

— (50) Officer, crossing guard, flagman, etc.

At railroad grade crossing

Active Devices

— (60) Gates

— (61) Flashing lights

— (62) Traffic control signal

— (63) Wigwags

— (64) Bells

— (68) Other train activated device

— (69) Active device, type unknown

Passive Devices

— (70) Crossbucks

— (71) Stop sign

— (72) Other railroad crossing sign

— (73) Special warning device — watchman, flagged by crew.

— (78) Other passive device

— (79) Passive device, type unknown

Miscellaneous Controls

— (80) Grade crossing controlled type unknown

Whether or not at railroad grade crossing

— (98) Other

— (99) Unknown

89 90

| POLICE, HOSPITAL/MEDICAL, OR<br>OTHER OFFICIAL   |  |
|--|--|
| <p>60. 61. 62. Other Driver Related Factors</p> <p>___ (00) No other driver related factors</p> <p style="padding-left: 20px;">Physical/Mental Condition</p> <p>___ (01) Nonphysical (i.e., mental or emotional factor)</p> <p>___ (02) Drowsy, sleepy, asleep, fatigued</p> <p>___ (03) Depression</p> <p>___ (04) Illness, disease, blackout</p> <p style="padding-left: 20px;">Physical Impairments</p> <p>___ (05) Deaf</p> <p>___ (06) Restricted to wheelchair</p> <p>___ (07) Paraplegic</p> <p>___ (08) Previous injury</p> <p>___ (09) Other physical impairments: _____</p> <p style="padding-left: 20px;">Drug Impairments</p> <p>___ (10) Drugs-medication (prescription, over-the-counter)</p> <p>___ (11) Other drugs (excludes alcohol, includes illegal substances): _____</p> <p style="padding-left: 20px;">Operator Related Factors:</p> <p>___ (20) Inattention</p> <p>___ (21) Interference with driver by other passenger</p> <p>___ (22) Operator inexperience</p> <p>___ (23) Unfamiliar with roadway</p> <p>___ (24) Overloading or improper loading of vehicles with passengers or cargo</p> <p>___ (25) Operating vehicle in erratic, reckless, careless or negligent manner</p> <p>___ (26) Improper or erratic lane changing</p> <p>___ (27) Failure to keep in proper lane or running off roadway</p> <p>___ (28) Making improper entry to or exit from trafficway</p> <p>___ (29) Failure to obey traffic signs, traffic control devices or traffic officers, failure to observe Safety Zones</p> <p>___ (30) Failure to signal intentions</p> <p>___ (31) Giving wrong signal</p> <p>___ (32) Making right turn from left lane, making left turn from right lane</p> <p>___ (33) Making other improper turn</p> <p>___ (34) Driving wrong way on one-way roadway</p> <p>___ (35) Driving on wrong side of roadway</p> <p>___ (36) Failure to dim lights or to have lights on when required</p> <p>___ (37) Operating without required equipment</p> <p>___ (38) Creating unlawful noise or using equipment prohibited by law</p> <p>___ (39) Passing where prohibited by posted signs, pavement markings, hill, curve or school bus displaying warning not to pass</p> <p>___ (40) Passing on wrong side</p> <p>___ (41) Passing with insufficient distance or inadequate visibility or failing to yield to overtaking vehicle</p> <p>___ (42) Passing through or around barrier positioned to prohibit or channel traffic</p> <p>___ (43) Failure to observe warnings or instructions on vehicles displaying them</p> <p>___ (44) Driving less than posted minimum</p> <p>___ (45) Operating at erratic or suddenly changing speeds</p> | <p>___ (46) High speed chase with police in pursuit</p> <p>___ (47) Illegal driving on road shoulder, in ditch, on roadside, or on sidewalk or path</p> <p>___ (48) Starting or backing improperly</p> <p>___ (49) Stopping in roadway (vehicle not abandoned)</p> <p>___ (50) Opening vehicle door into moving traffic or while vehicle is in motion</p> <p>___ (51) Towing or pushing vehicle improperly</p> <p>___ (98) Other: _____</p> <p>___ (99) Unknown</p><br><div style="text-align: right;"> <p>(60) <u>    </u> <u>    </u></p> <p>          91   92</p> <p>(61) <u>    </u> <u>    </u></p> <p>          93   94</p> <p>(62) <u>    </u> <u>    </u></p> <p>          95   96</p> </div> <p>63. 64. 65. Other Environmental Related Factors</p> <p>___ (00) No other environmental related factors</p> <p style="padding-left: 20px;">Vision Obscured By:</p> <p>___ (01) Rain, snow, fog, smoke, sand, dust</p> <p>___ (02) Reflected glare, bright sunlight, headlights</p> <p>___ (03) Curve, hill or other design features (including traffic signs, embankment)</p> <p>___ (04) Building, billboard, etc.</p> <p>___ (05) Trees, crops, vegetation</p> <p>___ (06) Moving vehicle (including load)</p> <p>___ (07) Parked vehicle</p> <p>___ (08) Other object not classifiable above</p> <p style="padding-left: 20px;">Swerving or Loss of Control Due to:</p> <p>___ (20) Severe crosswind</p> <p>___ (21) Wind from passing truck</p> <p>___ (22) Slippery surface</p> <p>___ (23) Avoiding debris or objects in roadway</p> <p>___ (24) Ruts, holes, bumps in roadway</p> <p>___ (25) Avoiding animals in roadway</p> <p>___ (26) Avoiding vehicle in roadway</p> <p>___ (27) Avoiding pedestrian, bicyclist, other nonmotorist in roadway</p> <p>___ (28) Avoiding standing water, snow, oil/slick or ice patch on roadway</p> <p style="padding-left: 20px;">Roadway Features:</p> <p>___ (30) Inadequate warning of exits, lanes narrowing, traffic controls, etc.</p> <p>___ (31) Pavement marking obscured or absent</p> <p>___ (32) Surface washed out (caved in, road slippage)</p> <p>___ (33) Shoulder too low or high</p> <p>___ (34) Inadequate construction or poor design of roadway, bridge, etc.</p> <p>___ (35) Vehicle unattended in roadway</p> <p>___ (98) Other: _____</p> <p>___ (99) Unknown</p><br><div style="text-align: right;"> <p>(63) <u>    </u> <u>    </u></p> <p>          97   98</p> <p>(64) <u>    </u> <u>    </u></p> <p>          99   100</p> <p>(65) <u>    </u> <u>    </u></p> <p>         101  102</p> </div> |



**DRIVER UPDATE RECORD**

This section must be completed prior to initial case submission

|  |                                 |    |    |   |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
|--|---------------------------------|----|----|---|--|--------------------------------|---|---|---|---|------------------|--|--|---|---|---------------------|--|--|---|---|-------------------|--|--|---|---|-----------------------------|--|--|----|--|-------------------|----|----|--|--|--|
| <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">1. Primary Sampling Unit Number</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">2</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td>2. Case Number--Stratification</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> </tr> <tr> <td>3. Record Number</td> <td></td> <td></td> <td style="text-align: center;">4</td> <td style="text-align: center;">7</td> </tr> <tr> <td>4. Transaction Code</td> <td></td> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">8</td> </tr> <tr> <td>5. Version Number</td> <td></td> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">9</td> </tr> <tr> <td>6. Investigator I.D. Number</td> <td></td> <td></td> <td colspan="2" style="text-align: center;">10</td> </tr> <tr> <td>7. Vehicle Number</td> <td style="text-align: center;">11</td> <td colspan="3" style="text-align: center;">12</td> </tr> </table> | 1. Primary Sampling Unit Number | 1  | 2  |   |  | 2. Case Number--Stratification | 3 | 4 | 5 | 6 | 3. Record Number |  |  | 4 | 7 | 4. Transaction Code |  |  | 2 | 8 | 5. Version Number |  |  | 6 | 9 | 6. Investigator I.D. Number |  |  | 10 |  | 7. Vehicle Number | 11 | 12 |  |  | <p>DRIVER'S NAME _____</p> <p>ADDRESS: _____<br/>_____</p> <p>State Driver License No.: _____</p> <p>Date of Birth: ____/____/____</p> <p style="text-align: center;">(Delete before submission)</p> |
| 1. Primary Sampling Unit Number  | 1                               | 2  |    |   |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
| 2. Case Number--Stratification   | 3                               | 4  | 5  | 6 |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
| 3. Record Number   |                                 |    | 4  | 7 |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
| 4. Transaction Code  |                                 |    | 2  | 8 |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
| 5. Version Number  |                                 |    | 6  | 9 |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
| 6. Investigator I.D. Number  |                                 |    | 10 |   |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |
| 7. Vehicle Number  | 11                              | 12 |    |   |  |                                |   |   |   |   |                  |  |  |   |   |                     |  |  |   |   |                   |  |  |   |   |                             |  |  |    |  |                   |    |    |  |  |  |

**Circle the number of each variable to be updated and complete upon receipt of this data**  
(or reason data not obtained (see response for log variable 14) \_\_\_\_)

|  |  |    |    |
|--|--|----|----|
| 33. Alcohol Test Results                                 |  | 48 | 49 |
| 36. Driver License Status (For this vehicle)             |  |    | 52 |
| 37. Driver License Type Compliance                       |  |    | 53 |
| 38. Driver License Restriction                           |  |    | 54 |
| 39. Additional Driver License Restriction                |  |    | 55 |
| 40. Previous Speeding Convictions                        |  |    | 56 |
| 41. Previous Other Harmful Moving Violations Convictions |  |    | 57 |
| 42. Previous Driving While Intoxicated Convictions       |  |    | 58 |
| 43. Previous Recorded Suspensions and Revocations        |  |    | 59 |
| 44. Previous Recorded Accidents                          |  |    | 60 |

SOURCE OF DATA ON WHICH UPDATE IS BASED

\_\_\_\_\_

**ATTACH TO THIS FORM ANY SUPPORTING OFFICIAL RECORDS FOR THIS DRIVER**



Occupant Data

NATIONAL ACCIDENT SAMPLING SYSTEM  
CONTINUOUS SAMPLING SUBSYSTEM

|                                |    |       |
|--------------------------------|----|-------|
| 1 Primary Sampling Unit Number | 1  | 2     |
| 2 Case Number-Stratification   | 3  | 4 5 6 |
| 3 Record Number                | 5  | 7     |
| 4 Transaction Code             | 8  |       |
| 5 Version Number               | 6  | 9     |
| 6 Investigator I.D. Number     | 10 |       |

IDENTIFICATION

|                   |    |    |
|-------------------|----|----|
| 7 Vehicle Number  | 11 | 12 |
| 8 Occupant Number | 13 | 14 |

OCCUPANT INTERVIEW

9 Occupant's Age

\_\_\_\_\_ year(s) - Code actual age at time of accident

\_\_\_ (00) Less than one year old

\_\_\_ (97) 97 years and older

\_\_\_ (99) Unknown

15 16

10. Occupant's Sex

\_\_\_ (1) Male

\_\_\_ (2) Female

\_\_\_ (9) Unknown

17

11. Occupant's Height

\_\_\_\_\_ inches - Code actual height to the nearest inch.

\_\_\_ (99) Unknown

18 19

12. Occupant's Weight

\_\_\_\_\_ pounds - Code actual weight to the nearest pound.

\_\_\_ (999) Unknown

20 21 22

13 Occupant's Role

\_\_\_ (1) Driver

\_\_\_ (2) Passenger

\_\_\_ (9) Unknown

23

14. Occupant's Seat Position

\_\_\_ (01) Front seat-left side

\_\_\_ (02) Front seat-middle

\_\_\_ (03) Front seat-right side

\_\_\_ (04) Second seat-left side

\_\_\_ (05) Second seat-middle

\_\_\_ (06) Second seat-right side

\_\_\_ (07) Third seat-left side

\_\_\_ (08) Third seat-middle

\_\_\_ (09) Third seat-right side

\_\_\_ (10) Front seat-additional passenger

\_\_\_ (11) Second seat or beyond-additional passenger

\_\_\_ (12) Truck-tractor sleeping section

\_\_\_ (13) Other enclosed area:

\_\_\_ (14) In or on unenclosed area  
area \_\_\_\_\_  
type: \_\_\_\_\_

\_\_\_ (15) In or on trailing unit  
unit \_\_\_\_\_  
type: \_\_\_\_\_

\_\_\_ (99) Unknown

24 25

(NOTE: INVESTIGATOR as used below refers to the product of individual observation, police reports, and any other sources used that culminated in the assessment which represents the final opinion of the investigator.)

15. Entrapment

(NOTE: Entrapped means that part of the occupant was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.)

| Inter-<br>viewee      | Investigator |
|-----------------------|--------------|
| ___ (0) Not entrapped | ___          |
| ___ (1) Entrapped     | ___          |
| ___ (9) Unknown       | ___          |

26

16. Ejection

\_\_\_ (0) None

\_\_\_ (1) Complete ejection

\_\_\_ (2) Partial ejection

\_\_\_ (3) Ejection, unknown degree

\_\_\_ (9) Unknown

27

v5  
(86  
67

v5  
(82  
76

| <u>Inter-<br/>viewee</u>   | <u>Inves-<br/>tigator</u> |
|--|---------------------------|
| <b>17 Ejection Area</b>  |                           |
| <input type="checkbox"/> (0) No ejection   | _____                     |
| <input type="checkbox"/> (1) Windshield  | _____                     |
| <input type="checkbox"/> (2) <i>Left front</i>   | _____                     |
| <input type="checkbox"/> (3) <i>Right front</i>  | _____                     |
| <input type="checkbox"/> (4) <i>Left rear</i>  | _____                     |
| <input type="checkbox"/> (5) <i>Right rear</i>   | _____                     |
| <input type="checkbox"/> (6) <i>Rear</i>   | _____                     |
| <input type="checkbox"/> (7) <i>Roof</i>   | _____                     |
| <input type="checkbox"/> (8) <i>Other area (e.g.,<br/>sidecar, back of pick-<br/>up, etc )</i> _____ | _____                     |
| <input type="checkbox"/> (9) <i>Unknown</i>  | _____                     |
|  | <u>28</u>                 |
| <b>18. Ejection Medium</b>   |                           |
| <input type="checkbox"/> (0) No ejection   | _____                     |
| <input type="checkbox"/> (1) <i>Door</i>   | _____                     |
| <input type="checkbox"/> (2) <i>Open roof structure</i>  | _____                     |
| <input type="checkbox"/> (3) <i>Fixed windows</i>  | _____                     |
| <b>Operable windows</b>  |                           |
| <input type="checkbox"/> (4) <i>Roll down type</i>   | _____                     |
| <input type="checkbox"/> (5) <i>Hinged type</i>  | _____                     |
| <input type="checkbox"/> (6) <i>Sliding type</i>   | _____                     |
| <input type="checkbox"/> (7) <i>Other type:</i>  | _____                     |
| <input type="checkbox"/> (8) <i>Other medium</i> _____   | _____                     |
| <input type="checkbox"/> (9) <i>Unknown</i>  | _____                     |
|  | <u>29</u>                 |

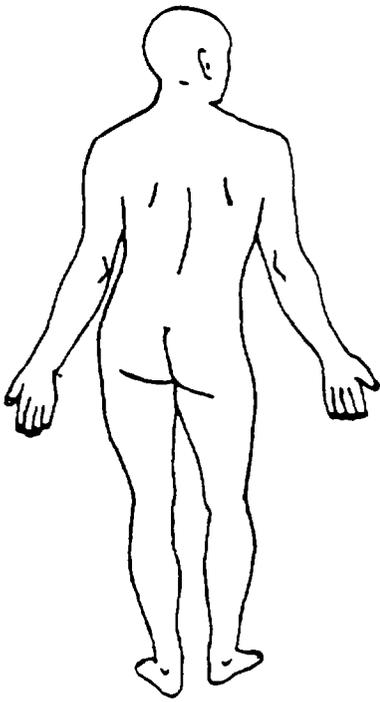
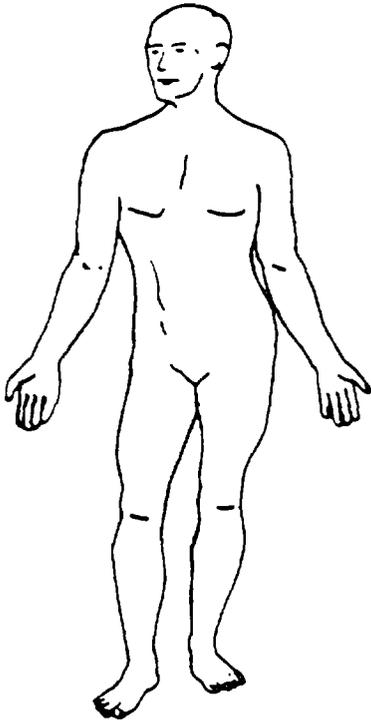
| <b>19 Medium Status</b>  |                             |
|--|-----------------------------|
| <u>Inter-<br/>viewee</u>   | <u>Inves-<br/>tigator</u>   |
| <input type="checkbox"/> (0) No ejection                               | _____                       |
| <input type="checkbox"/> (1) <i>Open</i>                               | _____                       |
| <input type="checkbox"/> (2) <i>Separation</i>                         | _____                       |
| <input type="checkbox"/> (3) <i>Closed, closed when<br/>damaged</i>    | _____                       |
| <input type="checkbox"/> (4) <i>Integral structure<br/>ripped open</i> | _____                       |
| <input type="checkbox"/> (9) <i>Unknown</i>                            | _____                       |
|  | <u>30</u>                   |
| <b>20. Treatment – Mortality</b>                                       |                             |
| <u>Inter-<br/>viewee</u>   | <u>Official<br/>Sources</u> |
| <input type="checkbox"/> (1) <i>Fatal</i>                              | _____                       |
| <input type="checkbox"/> (2) <i>Fatal – ruled disease</i>              | _____                       |
| <b>Nonfatal</b>  |                             |
| <input type="checkbox"/> (3) <i>Hospitalization</i>                    | _____                       |
| <input type="checkbox"/> (4) <i>Transported and released</i>           | _____                       |
| <input type="checkbox"/> (5) <i>Treatment-other</i>                    | _____                       |
| <input type="checkbox"/> (6) <i>No treatment</i>                       | _____                       |
| <input type="checkbox"/> (9) <i>Unknown</i>                            | _____                       |
|  | <u>31</u>                   |

COMMENTS

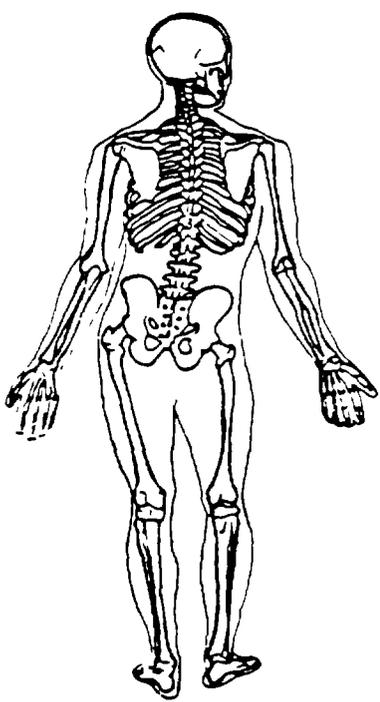
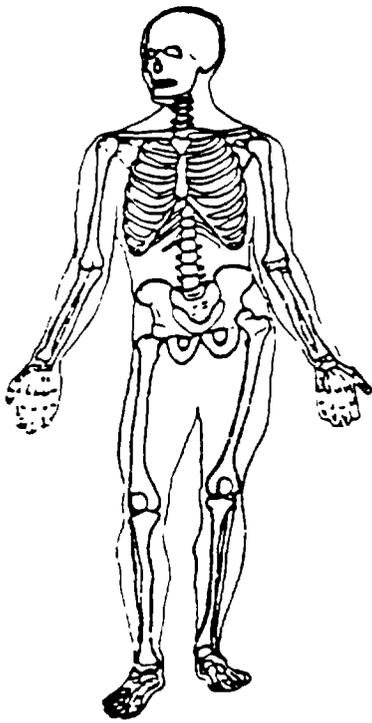
### INJURY DATA FROM INTERVIEWEE

Indicate the *Nature, Location, and injury Source* of all injuries

#### Soft Tissue Injuries



#### Skeletal Injuries



Collection Section

National Accident Sampling System – Continuous Sampling Subsystem: Occupant Data

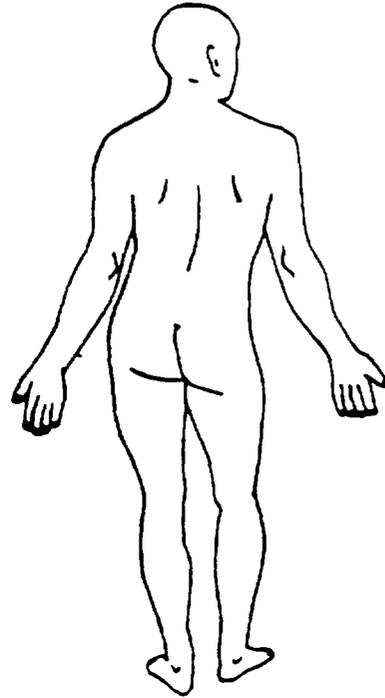
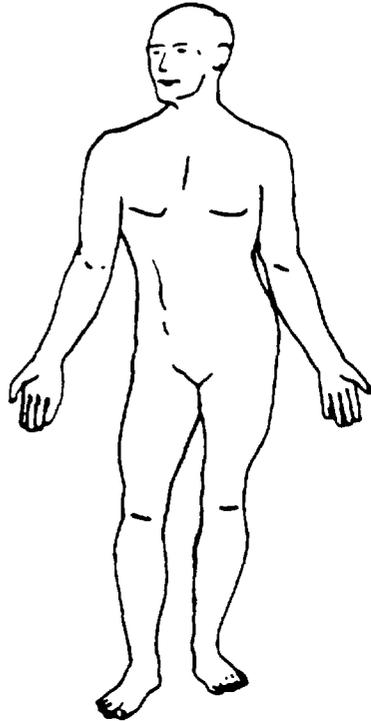
| Inter-viewee  | Official Sources | Inter-viewee  | Police | Investigator |
|---|------------------|---|--------|--------------|
| 21 Hospital Stay  |                  | 24 Manual (Active) Restraint System Use               |        |              |
| ___ (00) Not Hospitalized   | ___              | ___ (0) None used                                     | ___    | ___          |
| ___ day(s) – Code the number of days (up through 60) that the occupant stayed in hospital.                | ___              | ___ (1) Shoulder belt                                 | ___    | ___          |
| ___ (61) 61 days or more  | ___              | ___ (2) Lap belt                                      | ___    | ___          |
| ___ (99) Unknown  | ___              | ___ (3) Lap and shoulder belt                         | ___    | ___          |
|   |                  | ___ (4) Motorcycle helmet                             | ___    | ___          |
|   |                  | ___ (5) Child safety seat – used properly             | ___    | ___          |
|   |                  | ___ (6) Child safety seat – used improperly           | ___    | ___          |
|   |                  | ___ (7) Child safety seat – unknown if used properly  | ___    | ___          |
|   |                  | ___ (8) Restraint used – type unknown or other _____  | ___    | ___          |
|   |                  | ___ (9) Unknown                                       | ___    | ___          |
|   |                  |   |        | 37           |
| 22 Working Days Lost  |                  | 25. Automatic (Passive) Restraint System Availability |        |              |
| ___ (00) No working days lost   |                  | ___ (0) Not equipped                                  | ___    | ___          |
| ___ day(s) – Code the number of days (up through 60) that the occupant lost from work due to the accident |                  | ___ (1) Airbag  | ___    | ___          |
| ___ (61) 61 days or more  |                  | ___ (2) Airbag disconnected                           | ___    | ___          |
| ___ (62) Fatally Injured  |                  | ___ (3) Airbag not reinstalled                        | ___    | ___          |
| ___ (99) Unknown  |                  | ___ (4) 2 point automatic belts                       | ___    | ___          |
|   |                  | ___ (5) 3 point automatic belts                       | ___    | ___          |
|   |                  | ___ (6) Automatic belts destroyed                     | ___    | ___          |
|   |                  | ___ (9) Unknown                                       | ___    | ___          |
|   |                  |   |        | 38           |
|   |                  | 26. Automatic (Passive) Restraint Function            |        |              |
|   |                  | ___ (0) Not equipped                                  | ___    | ___          |
|   |                  | ___ (1) Automatic belt in use                         | ___    | ___          |
|   |                  | ___ (2) Automatic belt not in use                     | ___    | ___          |
|   |                  | ___ (3) Deployed airbag                               | ___    | ___          |
|   |                  | ___ (4) Nondeployed airbag                            | ___    | ___          |
|   |                  | ___ (9) Unknown                                       | ___    | ___          |
|   |                  |   |        | 39           |
|   |                  | 27 Relation of Interviewee to Occupant                |        |              |
|   |                  | ___ (0) No interview                                  |        |              |
|   |                  | ___ (1) Same person                                   |        |              |
|   |                  | ___ (2) Other accident involved person _____          |        |              |
|   |                  | Uninvolved Person                                     |        |              |
|   |                  | ___ (3) Relative or friend                            |        |              |
|   |                  | ___ (4) Other uninvolved person _____                 |        |              |
|   |                  | Combination of Persons:                               |        |              |
|   |                  | ___ (5) One of which was accident involved            |        |              |
|   |                  | ___ (6) None of which were accident involved          |        |              |
|   |                  | ___ (9) Unknown                                       |        |              |
|   |                  |   |        | 40           |
|   |                  |   |        |              |

THIS COMPLETES THE INTERVIEW

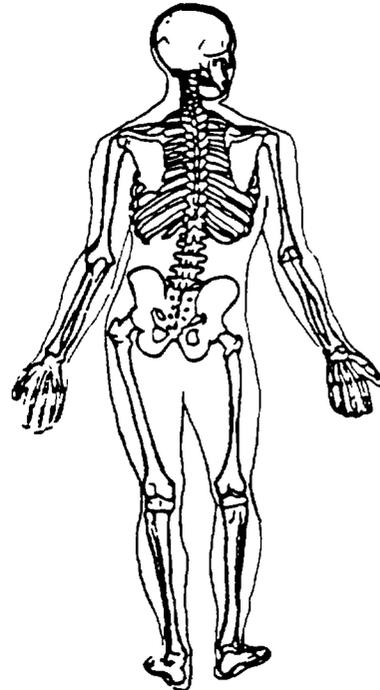
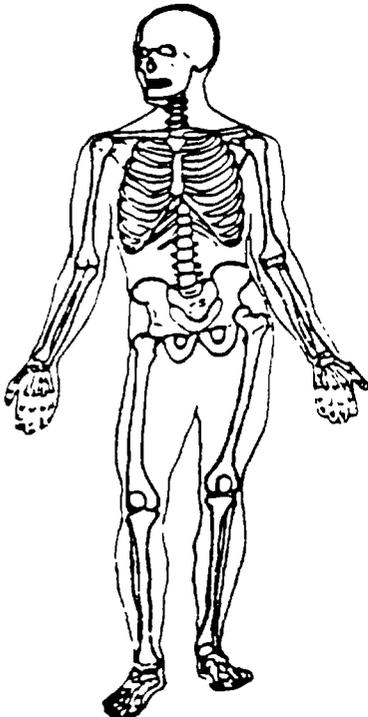
OFFICIAL INJURY DATA

Indicate the *Nature* and *Location* of All injuries

Soft Tissue Injuries



Skeletal Injuries



Write additional medical record injury information on reverse of this page.





### Occupant Update Record

This section must be completed prior to initial case submission

|   |                                |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
|---|--------------------------------|-----|--------------------------------|---------|-----------------|-----|--------------------|-----|------------------|-----|----------------------------|----|------------------|-------|--------------------|-------|--|
| <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;">1 Primary Sampling Unit Number</td> <td style="width:20%; text-align: center;">1 2</td> </tr> <tr> <td>2 Case Number - Stratification</td> <td style="text-align: center;">3 4 5 6</td> </tr> <tr> <td>3 Record Number</td> <td style="text-align: center;">5 7</td> </tr> <tr> <td>4 Transaction Code</td> <td style="text-align: center;">2 8</td> </tr> <tr> <td>5 Version Number</td> <td style="text-align: center;">6 9</td> </tr> <tr> <td>6 Investigator I.D. Number</td> <td style="text-align: center;">10</td> </tr> <tr> <td>7 Vehicle Number</td> <td style="text-align: center;">11 12</td> </tr> <tr> <td>8. Occupant Number</td> <td style="text-align: center;">13 14</td> </tr> </table> | 1 Primary Sampling Unit Number | 1 2 | 2 Case Number - Stratification | 3 4 5 6 | 3 Record Number | 5 7 | 4 Transaction Code | 2 8 | 5 Version Number | 6 9 | 6 Investigator I.D. Number | 10 | 7 Vehicle Number | 11 12 | 8. Occupant Number | 13 14 | <p>OCCUPANT'S NAME:<br/>_____</p> <p>Address: _____<br/>_____<br/>(Delete before submission)</p> <p>9. Age    ___</p> <p>10. Sex    ___</p> <p>DATA ON INITIAL SUBMISSION</p> <p>A08. Final Stratification                    ___</p> <p>21. Hospital Stay                            ___</p> <p>22. Working Days Lost                       ___</p> <p>71. Time of Death                            ___</p> |
| 1 Primary Sampling Unit Number  | 1 2                            |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 2 Case Number - Stratification  | 3 4 5 6                        |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 3 Record Number   | 5 7                            |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 4 Transaction Code  | 2 8                            |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 5 Version Number  | 6 9                            |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 6 Investigator I.D. Number  | 10                             |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 7 Vehicle Number  | 11 12                          |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |
| 8. Occupant Number  | 13 14                          |     |                                |         |                 |     |                    |     |                  |     |                            |    |                  |       |                    |       |  |

ENTER RESPONSE FOR EACH VARIABLE WHERE DATA ON INITIAL SUBMISSION WAS UNKNOWN OR IS FELT TO BE IN ERROR, GIVEN RECEIPT OF OFFICIAL MEDICAL RECORD(S)

|                           |       |
|---------------------------|-------|
| A08. Final Stratification | ___   |
| 9. Occupant's Age         | 15 16 |
| 10 Occupant's Sex         | 17    |
| 20. Treatment - Mortality | ___   |
| 21. Hospital Stay         | 31    |
| 22. Working Days Lost     | 32 33 |
|                           | 34 35 |

Complete prior to initial case submission

INJURY DATA CODED ON INITIAL SUBMISSION

|         |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|
| 28. ___ | 29. ___ | 30. ___ | 31. ___ | 32. ___ | 33. ___ | 34. ___ |
| 35. ___ | 36. ___ | 37. ___ | 38. ___ | 39. ___ | 40. ___ | 41. ___ |
| 42. ___ | 43. ___ | 44. ___ | 45. ___ | 46. ___ | 47. ___ | 48. ___ |
| 49. ___ | 50. ___ | 51. ___ | 52. ___ | 53. ___ | 54. ___ | 55. ___ |
| 56. ___ | 57. ___ | 58. ___ | 59. ___ | 60. ___ | 61. ___ | 62. ___ |
| 63. ___ | 64. ___ | 65. ___ | 66. ___ | 67. ___ | 68. ___ | 69. ___ |

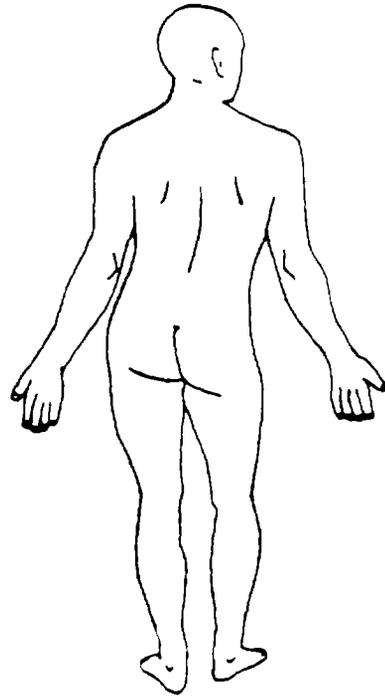
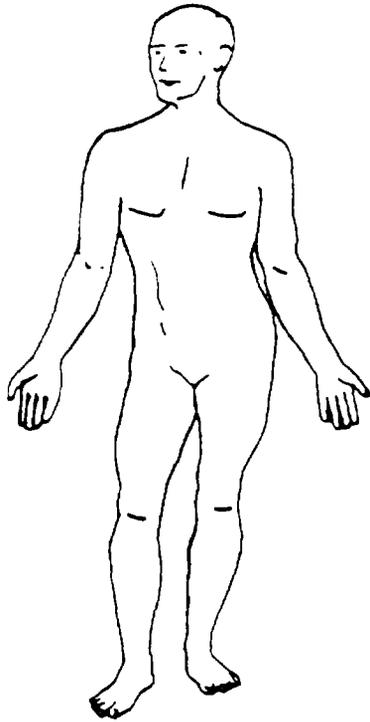
UPDATED INJURY DATA BASED ON SUBSEQUENTLY ACQUIRED OFFICIAL MEDICAL DATA  
[or reason data not obtained (see response for log variable 15) \_\_\_\_\_]

|     |                   |     |     |     |     |       |       |
|-----|-------------------|-----|-----|-----|-----|-------|-------|
| 1st | 28.               | 29. | 30. | 31. | 32. | 33.   | 34.   |
|     | 41                | 42  | 43  | 44  | 45  | 46 47 | 48 49 |
| 2nd | 35.               | 36. | 37. | 38. | 39. | 40.   | 41.   |
|     | 50                | 51  | 52  | 53  | 54  | 55 56 | 57 58 |
| 3rd | 42.               | 43. | 44. | 45. | 46. | 47.   | 48.   |
|     | 59                | 60  | 61  | 62  | 63  | 64 65 | 66 67 |
| 4th | 49.               | 50. | 51. | 52. | 53. | 54.   | 55.   |
|     | 68                | 69  | 70  | 71  | 72  | 73 74 | 75 76 |
| 5th | 56.               | 57. | 58. | 59. | 60. | 61.   | 62.   |
|     | 77                | 78  | 79  | 80  | 81  | 82 83 | 84 85 |
| 6th | 63.               | 64. | 65. | 66. | 67. | 68.   | 69.   |
|     | 86                | 87  | 88  | 89  | 90  | 91 92 | 93 94 |
|     | 71. Time of Death | 96  | 97  |     |     |       |       |

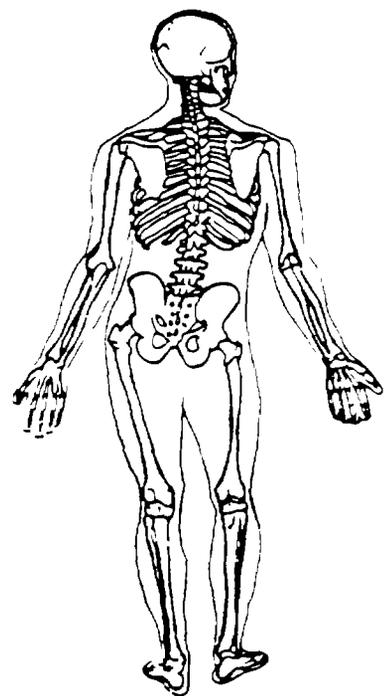
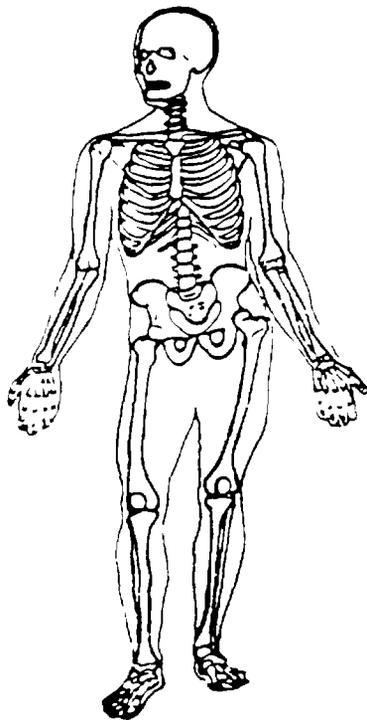
OFFICIAL INJURY DATA

Indicate the *Nature* and *Location* of *All* injuries

Soft Tissue Injunes



Skeletal Injunes



**OCCUPANT INJURY CLASSIFICATION**

Consider all injuries which are reported from both unofficial and official sources. The information from official sources takes precedence over similar injuries reported by any other source. In other words, do not list the same injury twice; supercede the interview data with official data in the case of similar injuries. List all injuries by official medical sources first. Police reported injuries may be used, but only when no other source of injury information is available.

Were more than ten (10) injuries sustained? \_\_\_ Unknown, \_\_\_ No, \_\_\_ Yes – If more than ten dissimilar injuries were identified during the interview, from collection of official data, and from other unofficial sources (excluding police), list those from the official records first, exhausting that level of data before listing those from the interviewee or other sources.

|    | I.S.S.<br>Body<br>Region | O.I.C.<br>Body<br>Region | Aspect | Lesion | System/<br>Organ | A.I.S.<br>Severity | Injury<br>Source | Source<br>of Data | Source of Data  |
|----|--------------------------|--------------------------|--------|--------|------------------|--------------------|------------------|-------------------|---|
| 1  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | Official  |
| 2  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (01) Autopsy records with or without hospital/medical records                       |
| 3  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (02) Hospital medical records other than emergency room (e.g., discharge summary)   |
| 4  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (03) Emergency room records only (including associated x-rays or other lab reports) |
| 5  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (04) Private physician  |
| 6  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | Unofficial  |
| 7  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (05) Lay coroner report   |
| 8  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (06) E.M.S. personnel   |
| 9  | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (07) Interviewee  |
| 10 | ---                      | ---                      | ---    | ---    | ---              | ---                | ---              | ---               | (08) Other source:  |

REDUCTION SECTION

I.S.S. Body Region

- (1) Head or neck
- (2) Face
- (3) Chest
- (4) Abdominal or pelvic contents
- (5) Extremities or pelvic girdle
- (6) General (external)
- (0) Not injured
- (9) Unknown

O.I.C. Body Region

- (M) Abdomen
- (Q) Ankle-foot
- (A) Arm (upper)
- (B) Back-thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head - skull
- (U) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck - cervical spine
- (P) Pelvic - hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body
- (W) Wrist - hand
- (0) Not injured
- (9) Unknown if injured

Aspect of Injury

- (A) Anterior - front
- (B) Bilateral
- (C) Central
- (I) Inferior - lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior - back
- (R) Right
- (S) Superior - upper
- (W) Whole region
- (0) Not injured
- (9) Unknown if injured

Lesion

- (A) Abrasions
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crushing
- (G) Detachment, separation
- (D) Dislocations
- (F) Fractures
- (Z) Fracture and dislocation
- (U) Injured unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprains
- (T) Strain
- (E) Total severance, transection
- (0) Not injured
- (9) Unknown if injured

System/Organ

- (W) All systems in region
- (A) Arteries - veins
- (B) Brain
- (D) Digestive
- (E) Ears
- (O) Eye
- (H) Heart
- (U) Injured, unknown system
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary - lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae
- (0) Not injured
- (9) Unknown if injured

Abbreviated Injury Scale

- (1) Minor injury
- (2) Moderate injury
- (3) Severe injury
- (4) Serious injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity
- (0) Not injured
- (9) Unknown if injured

**National Accident Sampling System – Continuous Sampling Subsystem: Occupant Data**

|  |   |   |
|--|---|---|
| <b>Injury Source</b>   | <b>ROOF</b>   | <b>EXTERIOR of STRIKING MOTOR VEHICLE</b>         |
| (00) No injury   | (31) Front header   | (71) Bumper                                       |
| <b>FRONT</b>   | (32) Rear header  | (72) Hood edge                                    |
| (01) Windshield  | (33) Roof side rails  | (73) Other front of vehicle                       |
| (02) Mirror  | (34) Roof or convertible top  | (74) Hood   |
| (03) Steering assembly including transmission selector level when column mounted | <b>FLOOR</b>  | (75) Hood ornament                                |
| (04) Add-on equipment (e.g. CB tape deck air conditioner)                        | (41) Floor  | (76) Windshield, roof rail A-pillar               |
| (05) Instrument panel and below, excluding foot controls and parking brake       | (42) Floor or console mounted transmission lever, including console | (77) Side surface                                 |
| (06) Sunvisor  | (43) Parking brake handle   | (78) Side mirrors                                 |
| (09) Other front object  | (44) Foot controls including parking brake                          | (79) Other side protrusions                       |
| <b>SIDE</b>  | <b>REAR</b>   | (80) Rear surface                                 |
| (11) Side interior surface, excluding hardware or armrests                       | (45) Backlight (rear window)  | (81) Undercarnage                                 |
| (12) Side hardware or armrests   | (46) Backlight storage rack, door, etc                              | (82) Tires and wheels                             |
| (13) A pillar  | (49) Other rear objects   | (83) Other exterior of other motor vehicle        |
| (14) B pillar  | <b>EXTERIOR of NONMOTORIST's VEHICLE</b>                            | (84) Unknown exterior of other motor vehicle      |
| (15) Other pillar  | (51) Hood   | <b>OTHER VEHICLE or OBJECT in the ENVIRONMENT</b> |
| (16) Window glass or frame   | (52) Outside hardware (e.g. outside mirror, antenna)                | (86) Ground                                       |
| (19) Other side object   | (53) Other exterior surface or tires                                | (87) Other vehicle or object                      |
| <b>INTERIOR</b>  | (59) Unknown exterior objects                                       | (89) Unknown vehicle or object                    |
| (21) Seat, back support  | <b>CYCLE</b>  | <b>NONCONTACT INJURY</b>                          |
| (22) Belt restraint system   | (61) Handle bars or attachments                                     | (90) Noncontact injury source (impact force)      |
| (23) Head restraint  | (62) Frame or suspension component or fender                        | (97) Injured, unknown source                      |
| (24) Air cushion   | (63) Seat   | (99) Unknown if injured                           |
| (25) Other occupants   | (64) Foot pedal, foot rest, foot pegs                               |   |
| (26) Interior loose objects  | (65) Wheel or tire  |   |
| (29) Other interior object   | (66) Engine or transmission   |   |
|  | (67) Gas tank, gas tank filling cap or neck                         |   |
|  | (69) Other cycle part   |   |

**OCCUPANT INJURY CLASSIFICATION**

If there are six or less injuries listed in the O.I.C. reduction section, code all of the injuries ordered by Source of Data (1st-autopsy, 2nd-hospital/medical, 3rd-emergency room, 4th-private physician, or 5th-unofficial sources) and by A.I.S. severity within source.

If there are more than six injuries order the injuries by source and by A.I.S. severity within source. Code this ordering, injury by injury. If a group of ordered injuries has the same source, the same A.I.S., and the group includes at least the sixth and seventh injuries in the ordering, then a choice must be made as to which injury or injuries to code.

Choose the injury or injuries that will enable the maximum number of different I.S.S. body regions to be represented in the coded data. If no new I.S.S. body region can be added, then simply code in accordance with the original ordering.

If the occupant has less than six injuries, then the number of rows required to be completed is equal to the number of injuries plus one (e.g., no injuries requires one row i.e., columns 41 to 49). In the additional row "No injury" will be coded for all variables including A.I.S. severity.

If you cannot increase the number of different ISS body regions or if you can choose between two or more injuries of the same source and AIS severity any of which would constitute an additional ISS region, then choose the injury that has a known injury source.

Update Candidate  Yes  No

|     | <u>I.S.S.</u><br><u>Body</u><br><u>Region</u> | <u>O.I.C.</u><br><u>Body</u><br><u>Region</u> | <u>Aspect</u>   | <u>Lesion</u>   | <u>System/</u><br><u>Organ</u> | <u>A.I.S.</u><br><u>Severity</u> | <u>Injury</u><br><u>Source</u> | <u>Source</u><br><u>of Data</u> |
|-----|---|---|-----------------|-----------------|--------------------------------|----------------------------------|--------------------------------|---------------------------------|
| 1st | —   | 28<br><u>41</u>                               | 29<br><u>42</u> | 30<br><u>43</u> | 31<br><u>44</u>                | 32<br><u>45</u>                  | 33<br><u>46</u> <u>47</u>      | 34<br><u>48</u> <u>49</u>       |
| 2nd | —   | 35<br><u>50</u>                               | 36<br><u>51</u> | 37<br><u>52</u> | 38<br><u>53</u>                | 39<br><u>54</u>                  | 40<br><u>55</u> <u>56</u>      | 41<br><u>57</u> <u>58</u>       |
| 3rd | —   | 42<br><u>59</u>                               | 43<br><u>60</u> | 44<br><u>61</u> | 45<br><u>62</u>                | 46<br><u>63</u>                  | 47<br><u>64</u> <u>65</u>      | 48<br><u>66</u> <u>67</u>       |
| 4th | —   | 49<br><u>68</u>                               | 50<br><u>69</u> | 51<br><u>70</u> | 52<br><u>71</u>                | 53<br><u>72</u>                  | 54<br><u>73</u> <u>74</u>      | 55<br><u>75</u> <u>76</u>       |
| 5th | —   | 56<br><u>77</u>                               | 57<br><u>78</u> | 58<br><u>79</u> | 59<br><u>80</u>                | 60<br><u>81</u>                  | 61<br><u>82</u> <u>83</u>      | 62<br><u>84</u> <u>85</u>       |
| 6th | —   | 63<br><u>86</u>                               | 64<br><u>87</u> | 65<br><u>88</u> | 66<br><u>89</u>                | 67<br><u>90</u>                  | 68<br><u>91</u> <u>92</u>      | 69<br><u>93</u> <u>94</u>       |

CODING SECTION

**National Accident Sampling System – Continuous Sampling Subsystem: Occupant Data**

**COMPLETED BY TEAM**

**INTERVIEW CONTACT RECORD**

| <u>Contact Sequence</u> | <u>Month</u> | <u>Day</u> | <u>Year</u>       | <u>Time of Contact</u> | <u>Contacting Investigator</u> | <u>Manner</u> | <u>Result</u> |
|-------------------------|--------------|------------|-------------------|------------------------|--------------------------------|---------------|---------------|
|                         | 9            |            | 10                |                        | 11                             | 12.           | 13            |
| 1st                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 14           |            | 15.               |                        | 16.                            | 17            | 18            |
| 2nd                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 19           |            | 20.               |                        | 21                             | 22.           | 23.           |
| 3rd                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 24           |            | 25.               |                        | 26                             | 26.           | 28.           |
| 4th                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 29           |            | 30.               |                        | 31.                            | 32.           | 33.           |
| 5th                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 34.          |            | 35.               |                        | 36.                            | 37.           | 38.           |
| 6th                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 39           |            | 40.               |                        | 41.                            | 42.           | 43.           |
| 7th                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |
|                         | 44           |            | 45.               |                        | 46.                            | 47.           | 48.           |
| 8th                     | ---          | ---        | <u>8</u> <u>3</u> | ---                    | ---                            | ---           | ---           |

**LOG RESPONSES**

**Manner**

- (1) Telephone
  - (2) Personal visit to home, work, etc.
  - (3) Letter (*questionnaire*)
  - (4) Other (*specify*)
- 

**Result of Last Contact Attempt**

- (01) Unable to contact or locate
  - (02) Hit and run
  - (03) Fatal—surrogate not available
  - (04) In intensive care—surrogate not available
  - (05) Out of State resident
  - (06) Refused interview for other than on advice of attorney or insurance company (*specify*)
- 

- (07) Insurance company refusal
  - (08) Attorney refusal or litigation
  - (09) Other (*specify*)
- 

- (10) No return of letter questionnaire
  - (11) Return of letter questionnaire (completed)
  - (12) Partial or complete interview
- 

**Result of Contact Attempt Other than Last Contact Attempt**

- (13) No answer (to phone call, no one home, etc.)
  - (14) Other person at home, work, etc.—Interviewee to contact investigator
  - (15) Other person at home, work, etc.—Investigator to repeat call, visit, leave questionnaire, or try elsewhere.
  - (16) Must obtain permission of attorney or insurance company
  - (17) Attorney or insurance company provided permission.
  - (18) Other (*specify*)
-

National Accident Sampling System – Continuous Sampling Subsystem: Occupant Data

If any of the coded injury Sources have "other" codes, i.e., 09, 15, 19, 29, 49, 53, 69, 73, 79, 83 or 87, describe the injury source below in the space provided. Clearly indicate each description by numerical value

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

POLICE, HOSPITAL/MEDICAL, OR OTHER OFFICIAL

71 Time of Death

\_\_\_\_(00) Not fatal

\_\_\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days (Note: 1 day = 31, 2 days = 32, .n days = 30+n up through 30 days = 60)

\_\_\_\_(96) Fatal—ruled disease

\_\_\_\_(99) Unknown

POLICE REPORT

70. Injury Severity (Police Rating)

\_\_\_\_ (0) No injury (O)

\_\_\_\_ (1) Possible injury (C)

\_\_\_\_ (2) Nonincapacitating injury (B)

\_\_\_\_ (3) Incapacitating injury (A)

\_\_\_\_ (4) Killed (K)

\_\_\_\_ (5) Injury, severity unknown

\_\_\_\_ (6) Died prior to accident

\_\_\_\_ (9) Unknown

96 97

COMMENTS:

Attach to This Form ANY Supporting Medical Documentation for This Occupant

| COMPLETED BY TEAM               |   |   |   |    |   |
|---------------------------------|---|---|---|----|---|
| 1. Primary Sampling Unit Number |   |   |   | 1  | 2 |
| 2. Case Number--Stratification  | 3 | 4 | 5 | 6  |   |
| 3. Record Number                |   |   |   | 5  | 7 |
| 4. Transaction Code             |   |   |   | 8  |   |
| 5. Version Number               |   |   |   | 6  | 9 |
| 6. Investigator I.D. Number     |   |   |   | 10 |   |

| OCCUPANT INTERVIEW  |    |    |    |    |       |
|---|----|----|----|----|-------|
| 7. Vehicle Number   |    |    |    | 11 | 12    |
| 8. Occupant Number  |    |    |    | 13 | 14    |
| 9. Is This Occupant a Driver  |    |    |    |    |       |
| (0) No  |    |    |    |    |       |
| (1) Yes   |    |    |    |    |       |
| (9) Unknown   |    |    |    |    |       |
|   |    |    |    | 15 |       |
| 10. Manner of Last Contact Attempt  |    |    |    |    |       |
| (1) Telephone   |    |    |    |    |       |
| (2) Personal visit to home, work, etc.  |    |    |    |    |       |
| (3) Letter ( <i>questionnaire</i> )   |    |    |    |    |       |
| (4) Other ( <i>specify</i> )  |    |    |    |    |       |
|   |    |    |    |    | 16    |
| 11. Result of Last Contact Attempt  |    |    |    |    |       |
| (01) Unable to contact or locate  |    |    |    |    |       |
| (02) Hit and run  |    |    |    |    |       |
| (03) Fatal--surrogate not available   |    |    |    |    |       |
| (04) In intensive care--surrogate not available   |    |    |    |    |       |
| (05) Out of State resident  |    |    |    |    |       |
| (06) Refused interview for other than on advice of attorney or insurance company ( <i>specify</i> ) |    |    |    |    |       |
|   |    |    |    |    |       |
| (07) Insurance company refusal  |    |    |    |    |       |
| (08) Attorney refusal or litigation   |    |    |    |    |       |
| (09) Other ( <i>specify</i> )   |    |    |    |    |       |
|   |    |    |    |    |       |
| (10) No return of letter questionnaire  |    |    |    |    |       |
| (11) Return of letter questionnaire (completed)   |    |    |    |    |       |
| (12) Partial or complete interview  |    |    |    |    |       |
|   |    |    |    | 17 | 18    |
| 12. Date Interview Completed  |    |    |    | 8  | 3     |
|   | 19 | 20 | 21 | 22 | 23 24 |
| 13. Completing Person   |    |    |    |    | 25    |

|  |  |  |  |  |       |
|--|--|--|--|--|-------|
| 14. Source of Interview Data                         |  |  |  |  |       |
| (1) No data obtained                                 |  |  |  |  |       |
| (2) Same person                                      |  |  |  |  |       |
| (3) Other occupant (or driver)                       |  |  |  |  |       |
| (4) Relative or friend                               |  |  |  |  |       |
| (5) Eyewitness                                       |  |  |  |  |       |
| (6) Combination of 3, 4 or 5                         |  |  |  |  |       |
| (7) Other ( <i>specify</i> )                         |  |  |  |  |       |
|  |  |  |  |  | 26    |
| 15. Reasons Medical Data Not Obtainable              |  |  |  |  |       |
| (00) Not medically treated                           |  |  |  |  |       |
| (01) Record obtained                                 |  |  |  |  |       |
| (02) No record of treatment at medical facility      |  |  |  |  |       |
| (03) Medical release required--not obtained          |  |  |  |  |       |
| (04) Nonaccident related injury                      |  |  |  |  |       |
| (05) Noncooperative hospital                         |  |  |  |  |       |
| (06) Hospital out of study area                      |  |  |  |  |       |
| (07) Private physician would not release information |  |  |  |  |       |
| (08) To be updated                                   |  |  |  |  |       |
| (09) Record not received before file closed          |  |  |  |  |       |
| (10) Unknown if medically treated                    |  |  |  |  |       |
|  |  |  |  |  | 27 28 |

| COMPLETED BY ZONE CENTER   |    |    |    |    |       |
|--|----|----|----|----|-------|
| 16. Date Medical Record Update Received  |    |    |    | 8  | 3     |
|  | 29 | 30 | 31 | 32 | 33 34 |
| 17. Reviewed By  |    |    |    |    |       |
|  |    |    |    |    | 35 36 |
| 18. Interviewee Injury Documentation   |    |    |    |    |       |
| (1) Complete--Injury descriptions are annotated in sufficient detail to enable independent OIC/AIS coding. The protocol for completing the injury diagram has been used and a contact mechanism or "unknown" is indicated. |    |    |    |    |       |
| (2) Partial--All coded injuries are described in adequate detail, however, additional annotation helpful for independent OIC/AIS coding. Contact mechanism omitted for some injuries.                                      |    |    |    |    |       |
| (3) Incomplete--Generally inadequate description of injuries or the coded injury does not correspond to the annotated injury.  |    |    |    |    |       |
| (4) NA--No interviewee reported injuries.  |    |    |    |    |       |
|  |    |    |    |    | 37    |
| 19. Official Injury Documentation  |    |    |    |    |       |
| (1) Complete--All injuries reported in the medical data are annotated with sufficient detail to enable an independent OIC/AIS coding. The protocol for completing the injury diagram has been used.                        |    |    |    |    |       |
| (2) Partial--All coded injuries are described in adequate detail, however, additional annotation helpful for independent OIC/AIS coding. Some minor injuries described in the medical data may be omitted.                 |    |    |    |    |       |
| (3) Incomplete--Generally inadequate or erroneous descriptions of injuries and/or omitted major injuries described in the medical data.  |    |    |    |    |       |
| (4) NA--No official medical data.  |    |    |    |    |       |
|  |    |    |    |    | 38    |



### PEDESTRIAN AND NONMOTORIST

NATIONAL ACCIDENT SAMPLING SYSTEM  
CONTINUOUS SAMPLING SUBSYSTEM

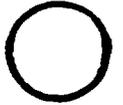
|   |  |
|---|--|
| <p>1. Primary Sampling Unit Number <span style="float:right">1 2</span></p> <p>2. Case Number - Stratification <span style="float:right">3 4 5 6</span></p> <p>3. Record Number <span style="float:right">7</span></p> <p>4. Transaction Code <span style="float:right">8</span></p> <p>5. Version Number <span style="float:right">9</span></p> <p>6. Investigator I.D. Number <span style="float:right">10</span></p>   | <p style="text-align:center"><b>PEDESTRIAN OR NONMOTORIST INTERVIEW</b></p> <p>9. Pedestrian or Nonmotorist's Age<br/>         _____ year(s) - Code actual age at time of accident<br/>         ___(00) Less than one year old<br/>         ___(97) 97 years and older<br/>         ___(99) Unknown <span style="float:right">14 15</span></p> <p>10. Pedestrian or Nonmotorist's Sex<br/>         ___(1) Male<br/>         ___(2) Female<br/>         ___(9) Unknown <span style="float:right">16</span></p> <p>11. Pedestrian or Nonmotorist's Height<br/>         _____ inches - Code actual reported height to the nearest inch.<br/>         ___(99) Unknown <span style="float:right">17 18</span></p> <p>12. Pedestrian or Nonmotorist's Weight<br/>         _____ pounds - Code actual reported weight to the nearest pound.<br/>         ___(999) Unknown <span style="float:right">19 20 21</span></p> <p>13. Months Cycling Experience<br/>         _____ months - Code actual months of previous cycling experience up to 60.<br/> <i>(NOTE: 44 days or less equals 1 month; a month and a half equals 2 months.)</i><br/>         ___(00) Non-cyclist<br/>         ___(61) Greater than 60 months (5 years)<br/>         ___(99) Unknown <span style="float:right">22 23</span></p> |
| <b>IDENTIFICATION</b>   |  |
| <p>7. Pedestrian or Nonmotorist's Number <span style="float:right">11 12</span></p> <p>8. Pedestrian or Nonmotorist's Type</p> <p>___(1) Pedestrian</p> <p>___(2) Bicyclist</p> <p>___(3) Other cyclist</p> <p>___(4) Occupant of an animal related nonmotor vehicle transport device</p> <p>___(5) Occupant of vehicle not in transport</p> <p>___(8) Other nonmotorist:</p> <p>_____</p> <p>_____</p> <p>___(9) Unknown <span style="float:right">13</span></p> |  |
| <b>ACCIDENT DESCRIPTION INSTRUCTIONS</b>  | <b>GENERAL DESCRIPTION OF ACCIDENT SEQUENCE</b>  |
| <p>Do not interrupt person during general description (narrative), unless he/she requests your assistance. Attempt to summarize the narrative while minimizing any disruptions of the person's internal logic. Specific questions may be asked later. Write these questions down in the space below or on the other side of the page, prior to the interview.</p> <p>SPECIFIC QUESTION _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>              | <p><i>(This represents a synopsis of an uninterrupted narrative by the pedestrian or nonmotorist.)</i></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p style="text-align:center">(70)</p>  |

Delete After Case Review

**ACCIDENT DIAGRAM**

Draw a rough sketch of the accident sequence as described by the pedestrian or nonmotorist. Note impact and final rest positions carefully. If possible, relate these to some identifiable object in the area, and record vehicle and pedestrian or nonmotorist headings relative to an object, as well.

Indicate North



**14. Pedestrian or Nonmotorist's Location**

- \_\_\_ (01) Intersection related - in crosswalk
- \_\_\_ (02) Intersection related - on roadway, not in crosswalk
- \_\_\_ (03) Intersection related - on roadway, crosswalk not available
- \_\_\_ (04) Intersection related - on roadway, crosswalk availability unknown
- \_\_\_ (05) Intersection related - not on roadway
- \_\_\_ (09) Intersection related - unknown
- \_\_\_ (10) Nonintersection - in crosswalk
- \_\_\_ (11) Nonintersection - on roadway, not in crosswalk
- \_\_\_ (12) Nonintersection - on roadway, crosswalk not available
- \_\_\_ (13) Nonintersection - on roadway, crosswalk availability unknown
- \_\_\_ (14) Nonintersection - in parking lane
- \_\_\_ (15) Nonintersection - on road shoulder
- \_\_\_ (16) Nonintersection - bike path
- \_\_\_ (17) Nonintersection - outside trafficway
- \_\_\_ (18) Nonintersection - other, not on roadway \_\_\_\_\_
- \_\_\_ (19) Nonintersection - unknown
- \_\_\_ (99) Unknown

24 25

15 19. Blank (These variables are left blank so that numbering consistency can be maintained with compatible variables on the Occupant Data form.)

**20. Treatment - Mortality**

| <u>Inter-viewee</u>              | <u>Official Sources</u> |
|----------------------------------|-------------------------|
| ___ (1) Fatal                    | _____                   |
| ___ (2) Fatal - ruled disease    | _____                   |
| Nonfatal                         |                         |
| ___ (3) Hospitalization          | _____                   |
| ___ (4) Transported and released | _____                   |
| ___ (5) Treatment - other:       | _____                   |
| _____                            |                         |
| ___ (6) No treatment             | _____                   |
| ___ (9) Unknown                  | _____                   |

26

**21. Hospital Stay**

|  |       |
|--|-------|
| ___ (00) Not hospitalized  | _____ |
| ___ day(s) (code the number of days (up through 60) that the pedestrian or nonmotorist stayed in hospital) |       |
| ___ (61) 61 days or more   | _____ |
| ___ (99) Unknown   | _____ |

27 28

**22. Working Days Lost**

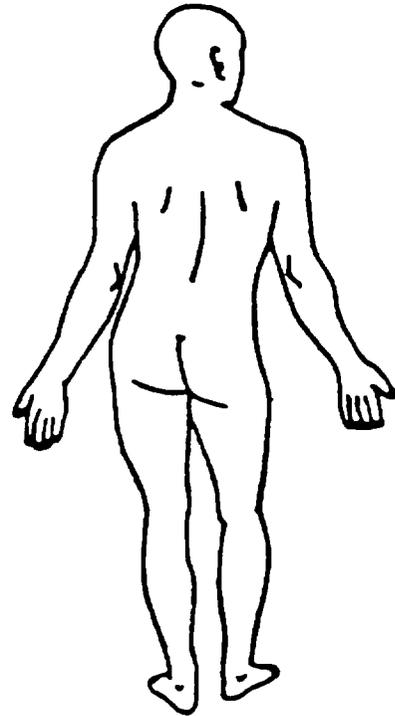
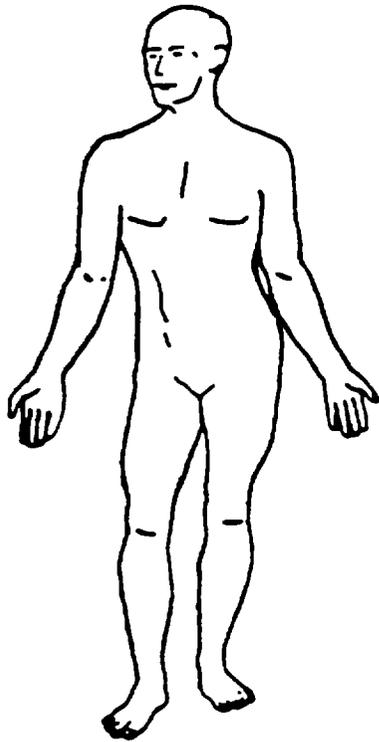
|  |       |
|--|-------|
| ___ (00) No working days lost  | _____ |
| ___ day(s) (code the number of days (up through 60) that the pedestrian or nonmotorist lost from work due to the accident) |       |
| ___ (61) 61 days or more   | _____ |
| ___ (62) Fatally injured   | _____ |
| ___ (99) Unknown   | _____ |

29 30

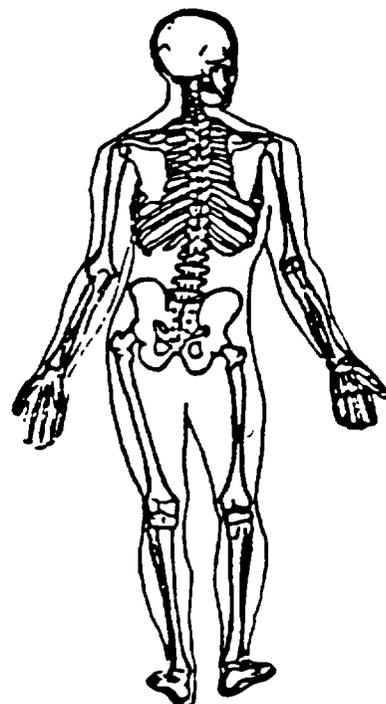
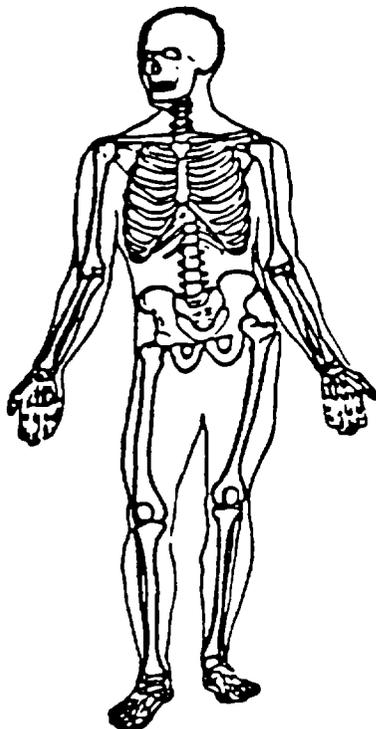
### INJURY DATA FROM INTERVIEWEE

Indicate the *Nature*, *Location*, and injury *Source* of all injuries.

#### Soft Tissue Injuries



#### Skeletal Injuries



23. - 26. Blank (These variables are left blank so that numbering consistency can be maintained with compatible variables on the Occupant Data form.)

27. Relation of Interviewee to Pedestrian or Nonmotorist

- \_\_\_ (0) No interview
  - \_\_\_ (1) Same person
  - \_\_\_ (2) Other accident involved person.
- \_\_\_\_\_

Uninvolved Person

- \_\_\_ (3) Relative or friend
  - \_\_\_ (4) Other uninvolved person
- \_\_\_\_\_

Combination of Persons

- \_\_\_ (5) One of which was accident involved
- \_\_\_ (6) None of which were accident involved
- \_\_\_ (9) Unknown

21

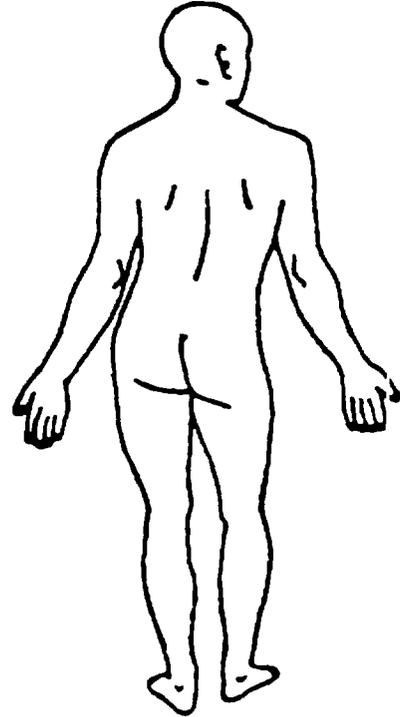
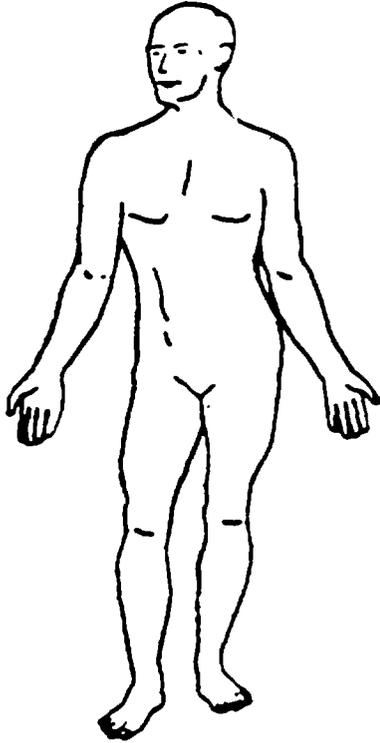
THIS COMPLETES THE INTERVIEW

COMMENTS

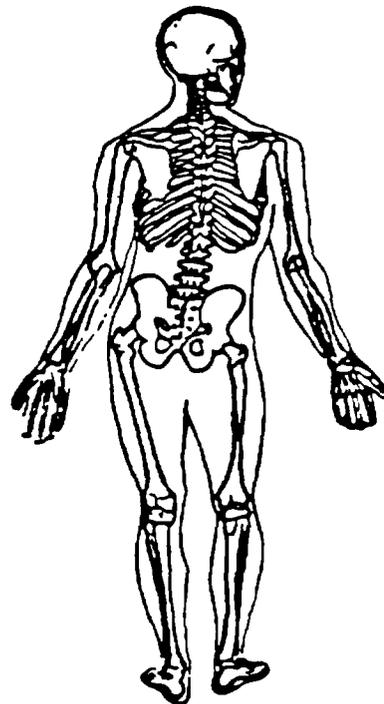
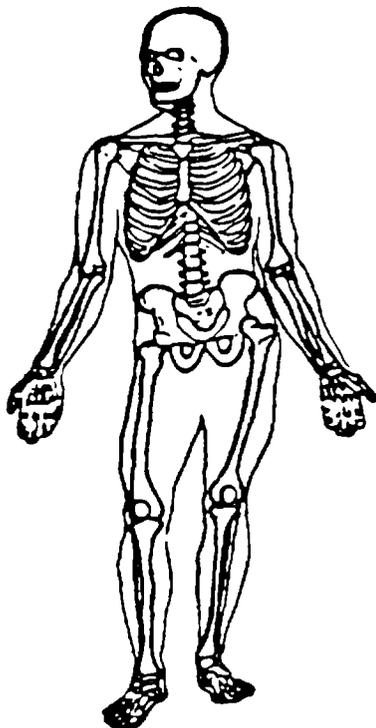
### OFFICIAL INJURY DATA

Indicate the Nature and Location of All Injuries

#### Soft Tissue Injuries



#### Skeletal Injuries



Write additional medical record injury information on reverse of this page.

### OCCUPANT INJURY CLASSIFICATION (FOR PEDESTRIAN AND NONMOTORIST)

... which are reported from both *unofficial* and *official* sources. The information from official sources takes precedence over similar information reported by any other source. In other words, do not list the same injury twice; supersede the interview data with official data in the case of similar injuries. List all injuries by official medical sources first. Police reported injuries may be used, but only when no other source of injury information is available.

Were more than ten (10) injuries sustained? \_\_\_ Unknown, \_\_\_ No, \_\_\_ Yes - If more than ten dissimilar injuries were identified during the interview, from collection of official data, and from other unofficial sources (excluding police), list those from the official records first, excluding the police data before listing those from the interview or other sources.

|    | I.S.S.<br>Body<br>Region | O.I.C.<br>Body<br>Region | Aspect | Lesion | System/<br>Organ | A.I.S.<br>Severity | Injury<br>Source | Source<br>of Data |
|----|--------------------------|--------------------------|--------|--------|------------------|--------------------|------------------|-------------------|
| 1  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 2  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 3  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 4  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 5  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 6  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 7  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 8  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 9  | —                        | —                        | —      | —      | —                | —                  | —                | —                 |
| 10 | —                        | —                        | —      | —      | —                | —                  | —                | —                 |

- Source of Data**
- Official*
- (01) Autopsy records with or without hospital/medical records
  - (02) Hospital medical records other than emergency room (e.g., discharge summary)
  - (03) Emergency room records only (including associated x-rays or other lab reports)
  - (04) Private physician, walk-in or emergency clinic
- Unofficial*
- (05) Lay coroner report
  - (06) E.M.S. personnel
  - (07) Interviewee
  - (08) Other source:
- 
- (09) Police
  - (99) Unknown if injured
  - (00) Not injured

**I.S.S. Body Region**

- (1) Head or neck
- (2) Face
- (3) Chest
- (4) Abdominal or pelvic contents
- (5) Extremities or pelvic girdle
- (6) General (external)
- (0) Not injured
- (9) Unknown

**O.I.C. Body Region**

- (M) Abdomen
- (N) Ankle-foot
- (A) Arm (upper)
- (R) Back - thoracolumbar spine
- (C) Chest
- (E) Elbow
- (F) Face
- (R) Forearm
- (H) Head - skull
- (I) Injured, unknown region
- (K) Knee
- (L) Leg (lower)
- (Y) Lower limb(s) (whole or unknown part)
- (N) Neck - cervical spine
- (P) Pelvic - hip
- (S) Shoulder
- (T) Thigh
- (X) Upper limb(s) (whole or unknown part)
- (O) Whole body
- (W) Wrist - hand
- (0) Not injured
- (9) Unknown if injured

**Aspect of Injury**

- (A) Anterior - front
- (C) Central
- (I) Inferior - lower
- (U) Injured, unknown aspect
- (L) Left
- (P) Posterior - back
- (R) Right
- (S) Superior - upper
- (W) Whole region
- (0) Not injured
- (9) Unknown if injured

**Lesion**

- (A) Abrasion
- (M) Amputation
- (V) Avulsion
- (B) Burn
- (K) Concussion
- (C) Contusion
- (N) Crush
- (G) Detachment, separation
- (D) Dislocation
- (F) Fracture
- (Z) Fracture and dislocation
- (U) Injured unknown lesion
- (L) Laceration
- (O) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection
- (0) Not injured
- (9) Unknown if injured

**System/Organ**

- (W) All systems in region
- (A) Arteries - veins
- (B) Brain
- (D) Digestive
- (E) Ear
- (O) Eye
- (H) Heart
- (U) Injured, unknown system
- (I) Integumentary
- (J) Joints
- (K) Kidneys
- (L) Liver
- (M) Muscles
- (N) Nervous system
- (P) Pulmonary - lungs
- (R) Respiratory
- (S) Skeletal
- (C) Spinal cord
- (Q) Spleen
- (T) Thyroid, other endocrine gland
- (G) Urogenital
- (V) Vertebrae
- (0) Not injured
- (9) Unknown if injured

**Abbreviated Injury Scale**

- (1) Minor injury
- (2) Moderate injury
- (3) Severe injury
- (4) Serious injury
- (5) Critical injury
- (6) Maximum (untreatable)
- (7) Injured, unknown severity
- (0) Not injured
- (9) Unknown if injured

- |  |  |  |
|--|--|--|
| <p><b>Injury Source</b></p> <p>(00) No injury</p> <p><b>FRONT</b></p> <p>(01) Windshield</p> <p>(02) Mirror</p> <p>(03) Steering assembly, including transmission selector lever when column mounted</p> <p>(04) Add-on equipment (e.g. CB, tape deck, air conditioner)</p> <p>(05) Instrument panel and below, excluding foot controls and parking brake</p> <p>(06) Sunvisor</p> <p>(09) Other front object</p> <p><b>SIDE</b></p> <p>(11) Side interior surface, excluding hardware or armrests</p> <p>(12) Side hardware or armrests</p> <p>(13) A pillar</p> <p>(14) B pillar</p> <p>(15) Other pillar</p> <p>(16) Window glass or frame</p> <p>(19) Other side object</p> <p><b>INTERIOR</b></p> <p>(21) Seat, back support</p> <p>(22) Belt restraint system</p> <p>(23) Head restraint</p> <p>(24) Air cushion</p> <p>(25) Other occupants</p> <p>(26) Interior knob objects</p> <p>(29) Other interior object</p> | <p><b>ROOF</b></p> <p>(31) Front header</p> <p>(32) Rear header</p> <p>(33) Roof side rails</p> <p>(34) Roof or convertible top</p> <p><b>FLOOR</b></p> <p>(41) Floor</p> <p>(42) Floor or console mounted transmission lever, including console</p> <p>(43) Parking brake handle</p> <p>(44) Foot controls including parking brake</p> <p><b>REAR</b></p> <p>(45) Backlight (rear window)</p> <p>(46) Backlight storage rack, door, etc.</p> <p>(49) Other rear objects</p> <p><b>EXTERIOR of NONMOTORIST'S VEHICLE</b></p> <p>(51) Hood</p> <p>(52) Outside hardware (e.g., outside mirror, antenna)</p> <p>(53) Other exterior surface or trim</p> <p>(59) Unknown exterior objects</p> <p><b>CYCLE</b></p> <p>(61) thru (69) Do Not Use.</p> <p>(These code numbers are left blank so that numbering consistency can be maintained with compatible variables on the Occupant Data form.)</p> | <p><b>EXTERIOR of STRIKING MOTOR VEHICLE</b></p> <p>(71) Front bumper</p> <p>(72) Hood edge</p> <p>(73) Other front of vehicle</p> <p>(74) Hood</p> <p>(75) Hood ornament</p> <p>(76) Windshield (incl. rail &amp; pillar)</p> <p>(77) Side surface</p> <p>(78) Side mirror</p> <p>(79) Other side protrusion</p> <p>(80) Rear surface</p> <p>(81) Undercarriage</p> <p>(82) Tires and wheels</p> <p>(83) Other exterior of striking motor vehicle</p> <p>(84) Unknown exterior of striking motor vehicle</p> <p><b>OTHER VEHICLE or OBJECT in the ENVIRONMENT</b></p> <p>(86) Ground</p> <p>(87) Other vehicle or object</p> <p>(89) Unknown vehicle or object</p> <p><b>NONCONTACT INJURY</b></p> <p>(90) Noncontact injury source (impact force)</p> <p>(97) Injured, unknown source</p> <p>(99) Unknown if injured</p> |
|--|--|--|

**OCCUPANT INJURY CLASSIFICATION**  
(FOR PEDESTRIAN AND NONMOTORIST)

If there are six or less injuries listed in the O.I.C. reduction section, code all of the injuries ordered by Source of Data (1st-autopsy, 2nd-hospital medical, 3rd-emergency room, 4th-private physician, or 5th-unofficial sources) and by A.I.S. severity within source.

If there are more than six injuries order the injuries by source and by A.I.S. severity within source. Code this ordering, injury by injury. If a group of ordered injuries has the same source, the same A.I.S., and the group includes at least the sixth and seventh injuries in the ordering, then a choice must be made as to which injury or injuries to code.

Choose the injury or injuries that will enable the maximum number of different I.S.S. body regions to be represented in the coded data. If no new I.S.S. body region can be added, then simply code in accordance with the original ordering.

If the pedestrian or nonmotorist has less than six injuries, then the number of rows required to be completed is equal to the number of injuries plus one (e.g. no injuries requires one row, i.e., columns 32 to 40). In the additional row "no injury" will be coded for all variables including A.I.S. severity.

If you cannot increase the number of different ISS body regions or if you can choose between two or more injuries of the same source and AIS severity any of which would constitute an additional ISS region, then choose the injury that has a known injury source.

Update Candidate:  Yes  No

|     | I.S.S. Body Region | O.I.C. Body Region | Aspect        | Lesion        | System/Organ  | A.I.S. Severity | Injury Source           | Source of Data          |
|-----|--------------------|--------------------|---------------|---------------|---------------|-----------------|-------------------------|-------------------------|
| 1ST | —                  | 28. <u>32</u>      | 29. <u>33</u> | 30. <u>34</u> | 31. <u>35</u> | 32. <u>36</u>   | 33. <u>37</u> <u>38</u> | 34. <u>39</u> <u>40</u> |
| 2ND | —                  | 35. <u>41</u>      | 36. <u>42</u> | 37. <u>43</u> | 38. <u>44</u> | 39. <u>45</u>   | 40. <u>46</u> <u>47</u> | 41. <u>48</u> <u>49</u> |
| 3RD | —                  | 42. <u>50</u>      | 43. <u>51</u> | 44. <u>52</u> | 45. <u>53</u> | 46. <u>54</u>   | 47. <u>55</u> <u>56</u> | 48. <u>57</u> <u>58</u> |
| 4TH | —                  | 49. <u>59</u>      | 50. <u>60</u> | 51. <u>61</u> | 52. <u>62</u> | 53. <u>63</u>   | 54. <u>64</u> <u>65</u> | 55. <u>66</u> <u>67</u> |
| 5TH | —                  | 56. <u>68</u>      | 57. <u>69</u> | 58. <u>70</u> | 59. <u>71</u> | 60. <u>72</u>   | 61. <u>73</u> <u>74</u> | 62. <u>75</u> <u>76</u> |
| 6TH | —                  | 63. <u>77</u>      | 64. <u>78</u> | 65. <u>79</u> | 66. <u>80</u> | 67. <u>81</u>   | 68. <u>82</u> <u>83</u> | 69. <u>84</u> <u>85</u> |

COMPLETED BY TEAM

INTERVIEW CONTACT RECORD

| Contact Sequence | Month | Day | Year | Time of Contact | Contacting Investigator | Manner | Result |
|------------------|-------|-----|------|-----------------|-------------------------|--------|--------|
| 1st              | 9.    |     | 8    | 10.             | 11.                     | 12.    | 13.    |
| 2nd              | 14.   |     | 8    | 15.             | 16.                     | 17.    | 18.    |
| 3rd              | 19.   |     | 8    | 20.             | 21.                     | 22.    | 23.    |
| 4th              | 24.   |     | 3    | 25.             | 26.                     | 26.    | 28.    |
| 5th              | 29.   |     | 8    | 30.             | 31.                     | 32.    | 33.    |
| 6th              | 34.   |     | 8    | 35.             | 36.                     | 37.    | 38.    |
| 7th              | 39.   |     | 8    | 40.             | 41.                     | 42.    | 43.    |
| 8th              | 44.   |     | 8    | 45.             | 46.                     | 47.    | 48.    |

LOG RESPONSES

Manner

- (1) Telephone
- (2) Personal visit to home, work, etc.
- (3) Letter (questionnaire)
- (4) Other (specify)

Result of Last Contact Attempt

- (01) Unable to contact or locate
- (02) Hit and run
- (03) Fatal-surrogate not available
- (04) In intensive care-surrogate not available
- (05) Out of State resident
- (06) Refused interview for other than on advice of attorney or insurance company (specify)

- (07) Insurance company refusal
- (08) Attorney refusal or litigation
- (09) Other (specify)

- (10) No return of letter questionnaire
- (11) Return of letter questionnaire (completed)
- (12) Partial or complete interview

Result of Contact Attempt Other than Last Contact Attempt

- (13) No answer (to phone call, no one home, etc.)
- (14) Other person at home, work, etc.-Interviewee to contact investigator
- (15) Other person at home, work, etc.-Investigator to repeat call, visit, leave questionnaire, or try elsewhere.
- (16) Must obtain permission of attorney or insurance company.
- (17) Attorney or insurance company provided permission.
- (18) Other (specify)

If any of the coded injury Sources have "other" codes, i.e., 09, 15, 19, 29, 49, 53, 69, 73, 79, 83 or 87; describe the injury source below in the space provided. Clearly indicate each description by numerical value.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**POLICE REPORT**

**70. Injury Severity (Police Rating)**

- \_\_\_ (0) No injury (O)
- \_\_\_ (1) Possible injury (C)
- \_\_\_ (2) Nonincapacitating injury (B)
- \_\_\_ (3) Incapacitating injury (A)
- \_\_\_ (4) Killed (K)
- \_\_\_ (5) Injury, severity unknown
- \_\_\_ (6) Died prior to accident
- \_\_\_ (9) Unknown

86

**71. Traffic Violation Charged Against This Pedestrian or Nonmotorist**

- \_\_\_ (0) No
- \_\_\_ (1) Yes (specify) \_\_\_\_\_
- \_\_\_ (9) Unknown

87

**72. Police Reported Alcohol Presence**

- \_\_\_ (0) No (alcohol not present)
- \_\_\_ (1) Yes (alcohol present)
- \_\_\_ (8) Not reported
- \_\_\_ (9) Unknown

88

**POLICE, HOSPITAL/MEDICAL, OR OTHER OFFICIAL**

**73. Alcohol Test Result**

- \_\_\_\_\_ Actual value (decimal implied before first digit) (0.xx)
- \_\_\_ (95) Test refused
- \_\_\_ (96) None given
- \_\_\_ (97) AC test performed, results unknown
- \_\_\_ (99) Unknown

89

90

**74. Time of Death**

- \_\_\_ (00) Not fatal
- \_\_\_\_\_ Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note 1 day = 31, 2 days = 32, . . . n days = 30+n up through 30 days = 60)
- \_\_\_ (96) Fatal-ruled disease
- \_\_\_ (99) Unknown

91

92

**75. 76. 77. Other Pedestrian/Nonmotorist Related Factors**

- \_\_\_ (00) No other pedestrian/nonmotorist related factors
- Physical/Mental Condition**
- \_\_\_ (01) Non-physical (i.e., mental or emotional factor)
- Physical Impairments**
- \_\_\_ (02) Blind
- \_\_\_ (03) Restricted sight
- \_\_\_ (04) Walking cane/crutches required
- \_\_\_ (05) Deaf
- \_\_\_ (06) Restricted to wheelchair
- \_\_\_ (07) Paraplegic
- \_\_\_ (08) Previous injury
- \_\_\_ (09) Other physical impairments \_\_\_\_\_

**Drug Impairments**

- \_\_\_ (10) Drugs-medication (prescription, over-the-counter)
- \_\_\_ (11) Other drugs (excludes alcohol, includes uncontrolled substances) \_\_\_\_\_

**Operator Related Factors.**

**Pedalcyclist Related (Includes Animal Related)**

- \_\_\_ (20) Inattention
- \_\_\_ (21) Interference with operator by other passenger
- \_\_\_ (22) Operator inexperience
- \_\_\_ (23) Unfamiliar with roadway
- \_\_\_ (24) Overloading or improper loading of vehicles with passengers or cargo
- \_\_\_ (25) Operating vehicle in erratic, reckless, careless or negligent manner
- \_\_\_ (26) Improper or erratic lane changing
- \_\_\_ (27) Failure to keep in proper lane or running off roadway
- \_\_\_ (28) Making improper entry to or exit from trafficway
- \_\_\_ (29) Failure to yield right-of-way
- \_\_\_ (30) Failure to obey traffic signs, traffic control devices or traffic officers, failure to observe Safety Zones
- \_\_\_ (31) Failure to signal intentions
- \_\_\_ (32) Giving wrong signal
- \_\_\_ (33) Making right turn from left lane, making left turn from right lane
- \_\_\_ (34) Making other improper turn
- \_\_\_ (35) Driving wrong way on one-way roadway
- \_\_\_ (36) Driving on wrong side of roadway
- \_\_\_ (37) Failure to have lights on when required

**Pedestrian Related (Includes Other Nonmotorist)**

- \_\_\_ (38) Not seen by driver
- \_\_\_ (39) Darting or running into roadway
- \_\_\_ (40) Improper crossing of roadway or intersection
- \_\_\_ (41) Walking with or against traffic, playing, working, sitting, lying, standing, etc. in roadway
- \_\_\_ (42) Holding onto vehicle
- \_\_\_ (98) Other \_\_\_\_\_ (75) 93
- \_\_\_ (99) Unknown \_\_\_\_\_ (76) 95 96
- \_\_\_\_\_ (77) 97 98

| COMPLETED BY TEAM               |          |          |          |           |          |
|---------------------------------|----------|----------|----------|-----------|----------|
| 1. Primary Sampling Unit Number |          |          |          | <u>1</u>  | <u>2</u> |
| 2. Case Number - Stratification | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u>  |          |
| 3. Record Number                |          |          |          | <u>7</u>  | <u>2</u> |
| 4. Transaction Code             |          |          |          | <u>8</u>  |          |
| 5. Version Number               |          |          |          | <u>9</u>  |          |
| 6. Investigator I.D. Number     |          |          |          | <u>10</u> |          |

| PEDESTRIAN OR NONMOTORIST INTERVIEW  |           |           |           |           |           |
|--|-----------|-----------|-----------|-----------|-----------|
| 7. Pedestrian or Nonmotorist's Number  |           |           |           | <u>11</u> | <u>12</u> |
| 8. Manner of Last Contact Attempt  |           |           |           |           |           |
| (1) Telephone  |           |           |           |           |           |
| (2) Personal visit to home, work, etc.   |           |           |           |           |           |
| (3) Letter (questionnaire)   |           |           |           |           |           |
| (4) Other (specify) _____  |           |           |           |           |           |
|  |           |           |           |           | <u>13</u> |
| 9. Result of Last Contact Attempt  |           |           |           |           |           |
| (01) Unable to contact or locate   |           |           |           |           |           |
| (02) Hit and run   |           |           |           |           |           |
| (03) Fatal-surrogate not available   |           |           |           |           |           |
| (04) In intensive care-surrogate not available   |           |           |           |           |           |
| (05) Out of State resident   |           |           |           |           |           |
| (06) Refused interview for other than on advice of attorney or insurance company (specify) _____ |           |           |           |           |           |
| (07) Insurance company refusal   |           |           |           |           |           |
| (08) Attorney refusal or litigation  |           |           |           |           |           |
| (09) Other (specify) _____   |           |           |           |           |           |
| (10) No return of letter questionnaire   |           |           |           |           |           |
| (11) Return of letter questionnaire (completed)  |           |           |           |           |           |
| (12) Partial or complete interview   |           |           |           |           |           |
|  |           |           |           | <u>14</u> | <u>15</u> |
| 10. Date Interview Completed   |           |           |           | <u>8</u>  |           |
|  | <u>16</u> | <u>17</u> | <u>18</u> | <u>19</u> | <u>21</u> |
| 11. Completing Person  |           |           |           |           | <u>22</u> |
| 12. Source of Interview Data   |           |           |           |           |           |
| (1) No data obtained   |           |           |           |           |           |
| (2) Same person  |           |           |           |           |           |
| (3) Other accident involved person   |           |           |           |           |           |
| (4) Relative or friend   |           |           |           |           |           |
| (5) Eyewitness   |           |           |           |           |           |
| (6) Combination of 3, 4 or 5   |           |           |           |           |           |
| (7) Other (specify) _____  |           |           |           |           |           |
|  |           |           |           |           | <u>23</u> |

|  |  |  |  |           |           |
|--|--|--|--|-----------|-----------|
| 13. Reasons Medical Data Not Obtainable              |  |  |  |           |           |
| (00) Not medically treated                           |  |  |  |           |           |
| (01) Record obtained                                 |  |  |  |           |           |
| (02) No record of treatment at medical facility      |  |  |  |           |           |
| (03) Medical release required-not obtained           |  |  |  |           |           |
| (04) Nonaccident related injury                      |  |  |  |           |           |
| (05) Noncooperative hospital                         |  |  |  |           |           |
| (06) Hospital out of study area                      |  |  |  |           |           |
| (07) Private physician would not release information |  |  |  |           |           |
| (08) To be updated                                   |  |  |  |           |           |
| (09) Record not received before file closed          |  |  |  |           |           |
| (10) Unknown if medically treated                    |  |  |  |           |           |
|  |  |  |  | <u>24</u> | <u>25</u> |

| COMPLETED BY ZONE CENTER  |           |           |           |           |                     |
|---|-----------|-----------|-----------|-----------|---------------------|
| 14. Date Medical Record Update Received   |           |           |           | <u>8</u>  |                     |
|   | <u>26</u> | <u>27</u> | <u>28</u> | <u>29</u> | <u>31</u>           |
| 15. Reviewed By   |           |           |           |           | <u>32</u> <u>33</u> |
| 16. Interviewee Injury Documentation  |           |           |           |           |                     |
| (1) Complete-Injury descriptions are annotated in sufficient detail to enable independent OIC/AIS coding. The protocol for completing the injury diagram has been used and a contact mechanism or "unknown" is indicated. |           |           |           |           |                     |
| (2) Partial- All coded injuries are described in adequate detail, however, additional annotation helpful for independent OIC/AIS coding. Contact mechanism omitted for some injuries.                                     |           |           |           |           |                     |
| (3) Incomplete-Generally inadequate description of injuries or the coded injury does not correspond to the annotated injury.  |           |           |           |           |                     |
| (4) NA-No interviewee reported injuries.  |           |           |           |           | <u>34</u>           |
| 17. Official Injury Documentation   |           |           |           |           |                     |
| (1) Complete-All injuries reported in the medical data are annotated with sufficient detail to enable an independent OIC/AIS coding. The protocol for completing the injury diagram has been used.                        |           |           |           |           |                     |
| (2) Partial-All coded injuries are described in adequate detail, however, additional annotation helpful for independent OIC/AIS coding. Some minor injuries described in the medical data may be omitted.                 |           |           |           |           |                     |
| (3) Incomplete-Generally inadequate or erroneous descriptions of injuries and/or omitted major injuries described in the medical data.  |           |           |           |           |                     |
| (4) NA-No official medical data   |           |           |           |           | <u>35</u>           |



**PEDESTRIAN AND NONMOTORIST FORM UPDATE RECORD**

This section must be completed prior to initial case submission

|                                       |    |       |
|---------------------------------------|----|-------|
| 1. Primary Sampling Unit Number       | 1  | 2     |
| 2. Case Number--Stratification        | 3  | 4 5 6 |
| 3. Record Number                      | 7  | 8     |
| 4. Transaction Code                   | 9  | 10    |
| 5. Version Number                     | 11 | 12    |
| 6. Investigator I.D. Number           |    |       |
| 7. Pedestrian or Nonmotorist's Number |    |       |

PEDESTRIAN or NONMOTORIST'S NAME

Address \_\_\_\_\_ Age \_\_\_\_\_

(Delete before submission)

DATA ON INITIAL SUBMISSION

|                           |  |
|---------------------------|--|
| A08. Final Stratification |  |
| 20. Treatment--Mortality  |  |
| 21. Hospital Stay         |  |
| 22. Working Days Lost     |  |
| 74. Time of Death         |  |

ENTER RESPONSE FOR EACH VARIABLE WHERE DATA ON INITIAL SUBMISSION WAS UNKNOWN OR IS FELT TO BE IN ERROR, GIVEN RECEIPT OF OFFICIAL MEDICAL RECORD(S)

|                                     |       |
|-------------------------------------|-------|
| A08. Final Stratification           | 17    |
| 9. Pedestrian or Nonmotorist's Age  | 14 15 |
| 10. Pedestrian or Nonmotorist's Sex | 16    |
| 20. Treatment--Mortality            | 26    |
| 21. Hospital Stay                   | 27 28 |
| 22. Working Days Lost               | 29 30 |

COMPLETE PRIOR TO INITIAL CASE SUBMISSION

INJURY DATA CODED ON INITIAL SUBMISSION

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| 28 | 29 | 30 | 31 | 32 | 33 | 34 |
| 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 |
| 56 | 57 | 58 | 59 | 60 | 61 | 62 |
| 63 | 64 | 65 | 66 | 67 | 68 | 69 |

UPDATED INJURY DATA BASED ON SUBSEQUENTLY ACQUIRED OFFICIAL MEDICAL DATA  
[ or reason data not obtained (see response for log variable 13) ]

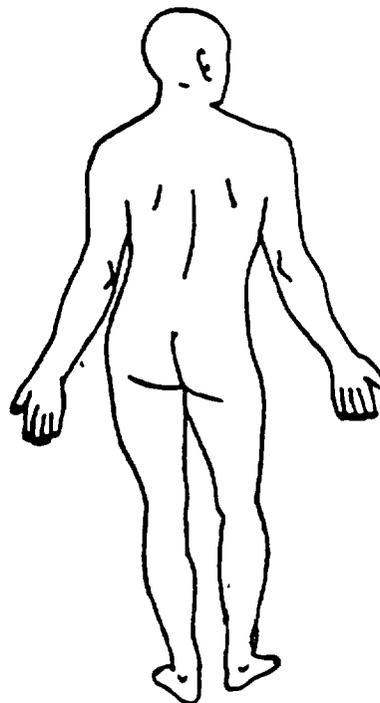
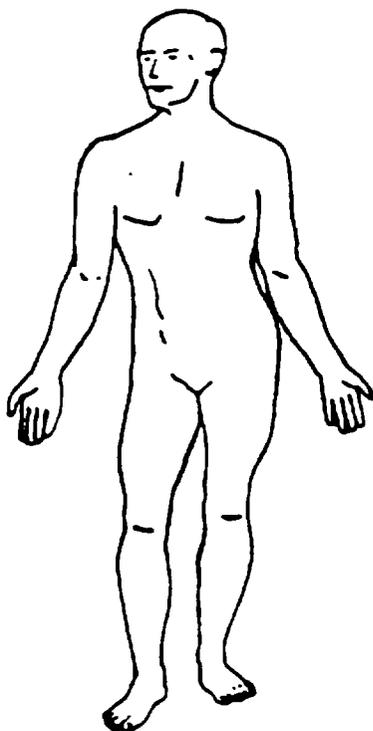
|                          |    |    |                   |    |    |    |    |
|--------------------------|----|----|-------------------|----|----|----|----|
| 1st                      | 28 | 29 | 30                | 31 | 32 | 33 | 34 |
| 2nd                      | 35 | 36 | 37                | 38 | 39 | 40 | 41 |
| 3rd                      | 42 | 43 | 44                | 45 | 46 | 47 | 48 |
| 4th                      | 49 | 50 | 51                | 52 | 53 | 54 | 55 |
| 5th                      | 56 | 57 | 58                | 59 | 60 | 61 | 62 |
| 6th                      | 63 | 64 | 65                | 66 | 67 | 68 | 69 |
| 73. Alcohol Test Results | 89 | 90 | 74. Time of Death | 91 | 92 |    |    |

INDICATE THE NATURE AND LOCATION OF ALL INJURIES FROM THE OFFICIAL MEDICAL REPORT(S) ON THE REVERSE SIDE AND ATTACH THE REPORT(S) TO THIS UPDATE

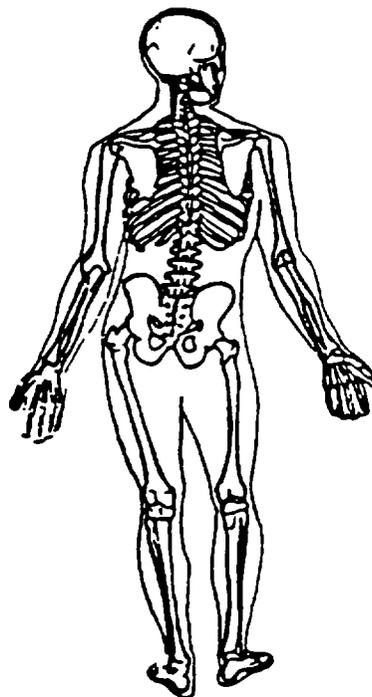
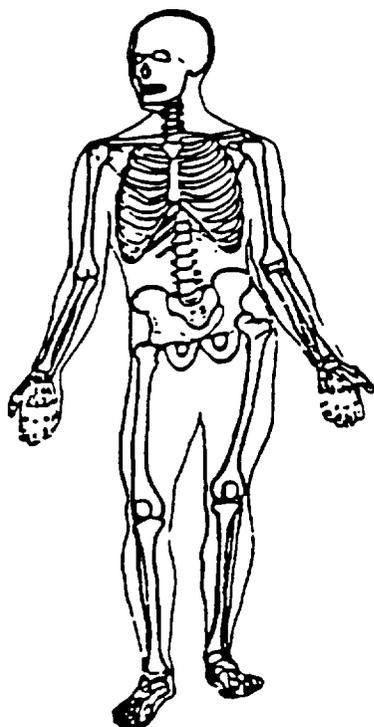
**OFFICIAL INJURY DATA**

Indicate the *Nature and Location* of All Injuries.

**Soft Tissue Injuries**



**Skeletal Injuries**





|                                |    |       |
|--------------------------------|----|-------|
| 1 Primary Sampling Unit Number | 1  | 2     |
| 2 Case Number Stratification   | 3  | 4 5 6 |
| 3 Record Number                | 3  | 7     |
| 4 Transaction Code             | 8  |       |
| 5 Version Number               | 6  | 9     |
| 6 Investigator I.D. Number     | 10 |       |

**IDENTIFICATION**

|  |    |    |
|--|----|----|
| 7 Vehicle Number   | 11 | 12 |
| 8 Number of Occupant Forms Submitted   |    |    |
| Code only the number of occupants in this vehicle for which an OCCUPANT FORM was submitted (97) 97 or more | 13 | 14 |
| 9 Vehicle Role   |    |    |
| (0) Noncollision   |    |    |
| (1) Striking unit  |    |    |
| (2) Struck unit  |    |    |
| (3) Both striking and struck   |    |    |
| (9) Unknown  |    | 15 |
| 10 Manner of Leaving Scene (Determined by Investigator)  |    |    |
| (1) Driven   |    |    |
| (2) Towed - due to vehicle damage  |    |    |
| (3) Towed - not due to vehicle damage  |    |    |
| (4) Abandoned  |    |    |
| (9) Unknown  |    | 16 |

**EXTERIOR ITEMS**

|   |    |    |
|---|----|----|
| 11 Vehicle Model Year   |    |    |
| Code the last two digits of the model year (99) Unknown   | 17 | 18 |
| 12 Vehicle Make   |    |    |
| Applicable codes are found in your NASS Data Collection, Coding and Editing Manual (99) Unknown | 19 | 20 |
| 13 Vehicle Model  |    |    |
| Applicable codes are found in your NASS Data Collection, Coding and Editing Manual (00) Unknown |    |    |
| (69) Unknown (motorcycle)   |    |    |
| (79) Unknown (light truck)  |    |    |
| (89) Unknown (truck)  |    |    |
| (99) Unknown (automobile)   | 21 | 22 |

**14 Body Type**

*Automobiles*

- \_\_\_ (01) Convertible (excludes sun-roof t-bar)
- \_\_\_ (02) 2-door sedan hardtop coupe
- \_\_\_ (03) 3-door 2-door hatchback
- \_\_\_ (04) 4-door sedan hardtop
- \_\_\_ (05) 5-door 4-door hatchback
- \_\_\_ (06) Station wagon (excluding van and truck based)
- \_\_\_ (08) Other automobile type
- \_\_\_ (09) Unknown automobile type

*Automobile Derivatives and Short Utility Vehicles*

- \_\_\_ (10) Auto based pickup (includes El Camino Cabillero Ranchero Brat)
- \_\_\_ (11) Auto based panel (cargo station wagon includes auto based ambulance hearse)
- \_\_\_ (12) Short utility - not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco Landcruiser, Thing)
- \_\_\_ (13) Large limousine - more than four side doors or stretched chassis

*Motorcycles*

- \_\_\_ (20) Motorcycle
- \_\_\_ (21) Mopeds (motorized bicycles)
- \_\_\_ (28) Other motorcycle (minibikes, motorscooters)
- \_\_\_ (29) Unknown motorcycle type

*Bus (excludes van based)*

- \_\_\_ (30) School bus (designed to carry students, not cross country or transit)
- \_\_\_ (31) Cross country/intercity (designed for long distance)
- \_\_\_ (32) Transit bus (includes short ride city bus and medium range suburban bus)
- \_\_\_ (38) Other bus (e.g., bus based motorhome)
- \_\_\_ (39) Unknown bus type

*Van Based Light Truck (< 10,000 lbs GVWR)*

- \_\_\_ (40) Van (includes VW bus, Vanagon, Kombi, Beauville, Chateau, Club Wagon, Sportsman, excludes moving van)
- \_\_\_ (41) Van-commercial cutaway (includes box van, multi-stop parcel, van pickups)
- \_\_\_ (42) Van based motorhome
- \_\_\_ (48) Other van type
- \_\_\_ (49) Unknown van type

*Light Conventional Truck (Pickup style cab < 10,000 lbs GVWR)*

- \_\_\_ (50) Pickup (includes open box and caps)
- \_\_\_ (51) Pickup with slide-in camper
- \_\_\_ (52) Pickup based motorhome (chassis mounted)
- \_\_\_ (53) Cab chassis based (includes rescue vehicles light stake, dump, and tow trucks)
- \_\_\_ (54) Truck based panel
- \_\_\_ (55) Truck based station wagon (4-door, includes Suburban Travelall, Wagoneer)
- \_\_\_ (56) Truck based utility (2-door includes Blazer, Bronco - 78 on Jimmy, Ramcharger, Cherokee, Trailduster, Scout)
- \_\_\_ (58) Other light conventional truck (e.g. stretched Suburban limousine)
- \_\_\_ (59) Unknown light conventional truck
- \_\_\_ (69) Unknown light truck (van or pickup)

*Medium/Heavy Truck (> 10,000 lbs GVWR)*

- \_\_\_ (70) Step vans
- \_\_\_ (71) Single unit straight truck (10,000 lbs < GVWR < 26,000 lbs.)
- \_\_\_ (72) Single unit straight truck (> 26,000 lbs GVWR)
- \_\_\_ (73) Medium heavy truck based motorhome
- \_\_\_ (74) Truck-tractor with no cargo trailer
- \_\_\_ (75) Truck-tractor pulling one or more trailers
- \_\_\_ (77) Truck-tractor (unknown if pulling trailer)
- \_\_\_ (78) Unknown medium/heavy truck type
- \_\_\_ (79) Unknown truck type (light/medium/heavy)

*Other Vehicles*

- \_\_\_ (80) Snowmobile
- \_\_\_ (81) Farm equipment other than trucks
- \_\_\_ (82) ATV, all terrain vehicle (e.g. dune/swamp buggy)
- \_\_\_ (83) Construction equipment other than trucks (e.g. grader, off road)
- \_\_\_ (88) Other (e.g. go cart, fork lift, city street sweeper)
- \_\_\_ (89) Unknown other vehicle

- \_\_\_ (99) Unknown body type

National Accident Sampling System – Continuous Sampling Subsystem: Vehicle Data

15 Towed Trailing Unit (V14# 75-77)  
 \_\_\_ (0) Not towed unit (or V14# 75-77)  
 Yes  
 Towed trailing unit hitch type  
 \_\_\_ (1) Clamp on (temporary)  
 \_\_\_ (2) Bumper hitch (bolted)  
 \_\_\_ (3) Frame  
 \_\_\_ (4) Fifth wheel  
 \_\_\_ (5) Other \_\_\_\_\_  
 \_\_\_ (6) Unknown hitch type

25

16 Cab Configuration  
 \_\_\_ (0) Not a truck (e.g. automobile motorcycle)  
 Cab Over Engine (COE)  
 \_\_\_ (1) COE high entry  
 \_\_\_ (2) COE low entry  
 \_\_\_ (3) COE unknown entry  
 Conventional (CBE Cab Behind Engine)  
 \_\_\_ (4) 2-door (standard)  
 \_\_\_ (5) 2-door extended cab/4-door crew cab  
 \_\_\_ (6) Unknown number of doors  
 \_\_\_ (7) Cab alongside engine (CAE)  
 \_\_\_ (8) Other \_\_\_\_\_  
 \_\_\_ (9) Unknown

17 Seating Capacity/Truck Vocation

Passenger Vehicles by Designated Seating Capacity  
 Motorcycle, Automobile, Van/Bus (exclude pickups)  
 \_\_\_ (01) One seat position  
 \_\_\_ (02) Two seat positions  
 \_\_\_ (03) Three seat positions  
 \_\_\_ (04) Four seat positions  
 \_\_\_ (05) Five seat positions  
 \_\_\_ (06) Six seat positions  
 \_\_\_ (07) Seven seat positions  
 \_\_\_ (08) Eight seat positions  
 \_\_\_ (09) Nine seat positions  
 \_\_\_ (10) 10 to 19 seat positions  
 \_\_\_ (11) 20 to 49 seat positions  
 \_\_\_ (12) 50 or more seat positions  
 \_\_\_ (13) Motorhome (any light or medium truck based)  
 \_\_\_ (14) Ambulance LMS (any auto or truck based)  
 \_\_\_ (19) Unknown passenger vehicle seating capacity

Cargo Vehicle by Vocation (Cargo Configuration)  
Platform  
 \_\_\_ (20) Platform, flat bed  
 \_\_\_ (21) Platform with device (e.g. self-loader, spreader)  
 \_\_\_ (22) Stake  
 \_\_\_ (23) Drop frame, low bed, lowboy  
 \_\_\_ (24) Livestock Carrier  
 \_\_\_ (28) Other platform \_\_\_\_\_

Open  
 \_\_\_ (30) Pickup box (non-dump, includes open box and caps)  
 \_\_\_ (31) Pickup with slide-in camper  
 \_\_\_ (32) Dump (any light, medium, or heavy truck based)  
 \_\_\_ (33) Dump with blade (front or undercarriage)  
 \_\_\_ (34) Hopper (grain)  
 \_\_\_ (35) Auto carrier transport (includes boat)  
 \_\_\_ (36) Van-open top  
 \_\_\_ (38) Other open \_\_\_\_\_

Closed  
 \_\_\_ (40) Van-closed top (any light, medium or heavy truck based, e.g. multi-stop)  
 \_\_\_ (41) Low bed van (e.g. moving van)  
 \_\_\_ (42) Refrigerated or insulated  
 \_\_\_ (43) Mobile home  
 \_\_\_ (44) Beverage, bottle  
 \_\_\_ (45) Container (e.g. piggy back)  
 \_\_\_ (46) Tank-liquid and gaseous  
 \_\_\_ (47) Tank-dry bulk  
 \_\_\_ (48) Other closed \_\_\_\_\_

Service/Utility  
 \_\_\_ (50) Garbage refuse (including dumpster)  
 \_\_\_ (51) Fire apparatus  
 \_\_\_ (52) Concrete mixer  
 \_\_\_ (53) Wrecker tow  
 \_\_\_ (54) Crane aerial basket  
 \_\_\_ (55) Service, mobile repair (e.g. phone line truck)  
 \_\_\_ (56) Pole (e.g. pipe or log)  
 \_\_\_ (57) Armored truck  
 \_\_\_ (58) Other service/utility \_\_\_\_\_  
 \_\_\_ (71) Truck-tractor – no trailer  
 \_\_\_ (72) Chassis incomplete vehicle  
 \_\_\_ (88) Other cargo vehicle \_\_\_\_\_  
 \_\_\_ (97) Other nontruck (e.g. construction paver, farm tractor)  
 \_\_\_ (98) Unknown cargo configuration  
 \_\_\_ (99) Unknown if passenger or cargo vehicle

27 28

**HEAVY TRUCK DATA ( TRUCKS OVER 10,000 LBS GVWR – V14=70–78)**

18 Tractor with Dromedary  
 \_\_\_ (0) Not truck over 10,000 lbs GVWR (V14 # 70–78)  
 \_\_\_ (1) No  
 \_\_\_ (2) Yes  
 \_\_\_ (9) Unknown

19 20. 21. 22. Number of Axles

| Power Unit | Trailer 1st | Trailer 2nd | Trailer 3rd |   |
|------------|-------------|-------------|-------------|---|
| ___        | ___         | ___         | ___         | (0) Not truck over 10,000 lbs GVWR (V14# 70–78) |
| ___        | ___         | ___         | ___         | (1) One   |
| ___        | ___         | ___         | ___         | (2) Two   |
| ___        | ___         | ___         | ___         | (3) Three                                       |
| ___        | ___         | ___         | ___         | (4) Four  |
| ___        | ___         | ___         | ___         | (5) Five  |
| ___        | ___         | ___         | ___         | (6) Six   |
| ___        | ___         | ___         | ___         | (7) Seven                                       |
| ___        | ___         | ___         | ___         | or more   |
| ___        | ___         | ___         | ___         | (8) No trailer                                  |
| ___        | ___         | ___         | ___         | (9) Unknown                                     |

P 1 2 3  
30 31 32 33

23 Type of Brakes  
 \_\_\_ (0) Not truck over 10,000 lbs GVWR (V14# 70–78)  
 \_\_\_ (1) Air  
 \_\_\_ (2) Hydraulic  
 \_\_\_ (3) Electric  
 \_\_\_ (4) Other \_\_\_\_\_  
 \_\_\_ (9) Unknown

34

24. Gross Vehicle Weight Rating (GVWR)  
 \_\_\_ (0) Not truck over 10,000 lbs. GVWR (V14#70–78)  
 \_\_\_ (1) 10,001-14,000 lbs.  
 \_\_\_ (2) 14,001-16,000 lbs  
 \_\_\_ (3) 16,001-19,500 lbs  
 \_\_\_ (4) 19,501-26,000 lbs  
 \_\_\_ (5) 26,001-33,000 lbs  
 \_\_\_ (6) 33,001 lbs. and above  
 \_\_\_ (9) Unknown

35

National Accident Sampling System – Continuous Sampling Subsystem Vehicle Data

FIELD MEASUREMENTS

| Complete When Applicable                |                             |
|---|-----------------------------|
| End Damage                              | Side Damage                 |
| Undertorned end width _____             | Bowing B1 _____ X1 _____    |
| Corner shift A1 _____                   | B2 _____ X2 _____           |
| A2 _____                                | Bowing constant             |
| End shift at frame (CDC)<br>(check one) | $\frac{X1 + X2}{2} =$ _____ |
| < 4 inches _____                        |                             |
| ≥ 4 inches _____                        |                             |

Note Measure C1 to C6 from Driver to Passenger side in Front or Rear impacts—  
Rear to Front in Side impacts

| Specific Impact Number | Plane* of C-Measurements | Direct Damage |              | Field L** | C <sub>1</sub> | C <sub>2</sub> | C <sub>3</sub> | C <sub>4</sub> | C <sub>5</sub> | C <sub>6</sub> | ±D |
|------------------------|--------------------------|---------------|--------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----|
|                        |                          | Width** (CDC) | Max*** Crush |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |
|                        |                          |               |              |           |                |                |                |                |                |                |    |

\*Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill at beltline, etc.) or label adjustments (e.g., free space).

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

\*\*Measure and document on the vehicle diagram the beginning or end of the direct damage width and field L (e.g., side damage with respect to undamaged axle).

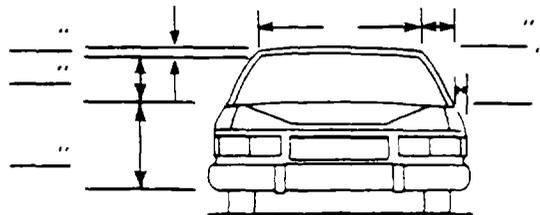
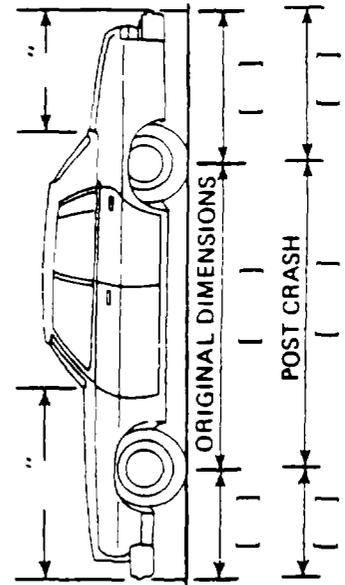
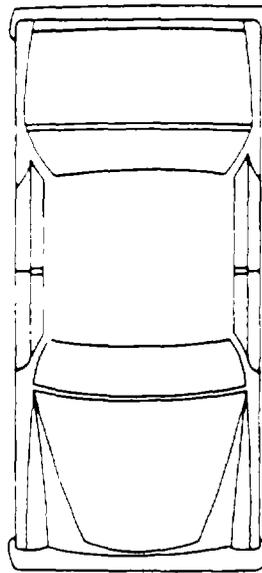
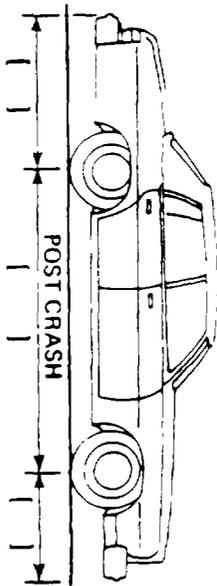
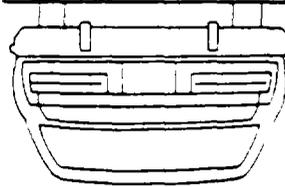
\*\*\*Measure and document on the vehicle diagram the location of the maximum crush.

Note: Use as many lines/columns as necessary to describe each damage profile.



| DAMAGE DESCRIPTION   | TYPE OF TRANSMISSION   | WHEEL STEER ANGLES   |
|--|--|--|
| Tire—Wheel Damage<br>a Rotation physically restricted<br>RF _____<br>LF _____<br>RR _____<br>LR _____<br>b Tire deflated<br>RF _____<br>LF _____<br>RR _____<br>LR _____ | ___ Manual ___ Automatic<br>Average Track _____<br>Maximum Width _____<br>Curb Weight _____<br>Overall Length _____<br>Engine Size cyl _____<br>displ. _____ | (For locked front wheels or displaced rear axles only)<br>RF ± _____ °<br>LF ± _____ °<br>RR ± _____ °<br>LR ± _____ °<br>Within ± 5 degrees |
| (1) Yes, (2) No, (8) NA, (9) Unk   |  |  |

Vehicle No \_\_\_\_\_

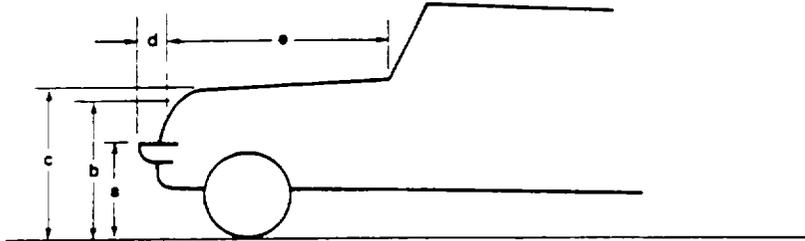


Note Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewall, etc.)

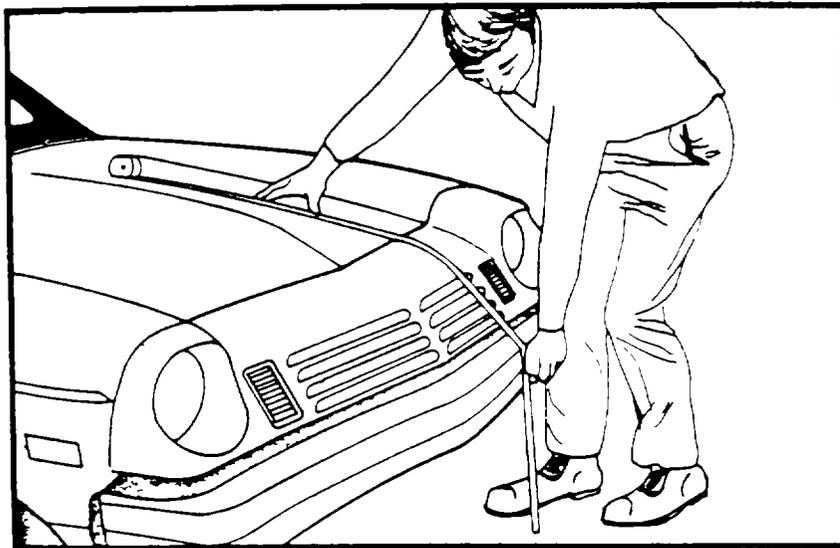
If pulling trailer sketch type of trailer and damage received on reverse side

Annotate any damage caused by extrication such as component removal by torching, prying or hydraulic shears

Pedestrian Impacts Only



- \_\_\_\_\_ a. Bumper Height
- \_\_\_\_\_ b. Contact Height - to end of Vertical
- \_\_\_\_\_ c. Hood Height - to Horizontal
- \_\_\_\_\_ d. Bumper Lead
- \_\_\_\_\_ e. Hood Length
- \_\_\_\_\_ f. Wrap Distance(s)
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



WRAP DISTANCE MEASUREMENT

DEFORMATION CLASSIFICATION by IMPACT NUMBER

| Sequence Number of Impact (this vehicle) | Object Contacted | Direction of Force (degrees) | Incremental Value of Shift | (3) Deformation Location | (4) Specific Longitudinal or Lateral Location | (5) Specific Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent Guide | Sequence Number of Impact (in accident) |
|--|------------------|------------------------------|----------------------------|--------------------------|---|---|---------------------------------|------------------------------|---|
| 1  | ---              | ---                          | ---                        | ---                      | ---   | ---                                       | ---                             | ---                          | ---                                     |
| 2  | ---              | ---                          | ---                        | ---                      | ---   | ---                                       | ---                             | ---                          | ---                                     |
| 3  | ---              | ---                          | ---                        | ---                      | ---   | ---                                       | ---                             | ---                          | ---                                     |
| 4  | ---              | ---                          | ---                        | ---                      | ---   | ---                                       | ---                             | ---                          | ---                                     |

- OBJECT CONTACTED**
- (00) Noncollision  
(01) through (30) \_\_\_\_\_
- If the object contacted by the vehicle under consideration was a motor vehicle in transport, code the Vehicle Number assigned to that vehicle
- Collision with Stationary Object**
- (31) Motor vehicle not in transport\*  
(32) Tree (≤ 6 inches in diameter)  
(33) Tree (> 6 inches in diameter)  
**Highway/Traffic Supports**  
(34) Luminaire—breakaway  
(35) Luminaire—nonbreakaway  
(36) Large sign—breakaway  
(37) Large sign—nonbreakaway  
(38) Small sign—breakaway  
(39) Small sign—nonbreakaway  
(40) Utility pole  
(41) Other post, pole, or support  
(42) Traffic signal pole
- (43) Fence  
(44) Mail box  
(45) Delineator  
(46) Other movable object  
(47) Culvert  
(48) Railroad tracks  
(49) Curb  
(50) Abutment  
(51) Wall (stone, rock, metal, etc.)  
(52) Embankment—earth  
(53) Embankment—rock, stone or concrete  
(54) Building, rigid  
(55) Building, nonrigid  
(56) Bridge pier or abutment  
(57) Bridge rail  
(58) Bridge parapet end  
(59) Guardrail (non-median)  
(60) Guardrail (median)  
(61) Concrete barrier (non-median)  
(62) Concrete barrier (median)  
(63) Other median barrier
- (64) Other longitudinal barrier (non-median)  
(65) Impact attenuator/Crash cushion  
(66) Ground  
(67) Train  
(68) Ditch  
(69) Other stationary/fixd object
- Collision with Nonstationary Objects**
- (70) Animal  
(71) Trailer, disconnected in transport  
(72) Train  
(73) Other nonstationary objects
- (81) through (95)  
If the object contacted by the vehicle under consideration was pedestrian or nonmotorist, add eighty (80) to the assigned Pedestrian & Nonmotorist Number, and code the resultant sum  
(96) Vehicle occupant  
(97) Other object  
(99) Unknown

NOTE For coding of CDC or TDC investigators must refer to appropriate reference documents for accurate coding.  
\*If this vehicle impacted a vehicle not in transport, fill in the information for that vehicle at the end of the CRASH Program Summary

DEFORMATION CLASSIFICATION

HIGHEST DELTA "V"

| Sequence Number of Impact (this vehicle) | Object Contacted | (1) (2) Direction of Force | (3) Deformation Location | (4) Specific Longitudinal or Lateral Location | (5) Specific Vertical or Lateral Location | (6) Type of Damage Distribution | (7) Deformation Extent Guide | Sequence Number of Impact (in accident) |
|--|------------------|----------------------------|--------------------------|---|---|---------------------------------|------------------------------|---|
| 25<br>36                                 | 26<br>37 38      | 27<br>39 40                | 28<br>41                 | 29<br>42                                      | 30<br>43                                  | 31<br>44                        | 32<br>45 46                  | 33<br>47                                |
| 34<br>48                                 | 35<br>49 50      | 36<br>51 52                | 37<br>53                 | 38<br>54                                      | 39<br>55                                  | 40<br>56                        | 41<br>57 58                  | 42<br>59                                |
| 43<br>60                                 | 44<br>61 62      | 45<br>63 64                | 46<br>65                 | 47<br>66                                      | 48<br>67                                  | 49<br>68                        | 50<br>69 70                  | 51<br>71                                |
| 52<br>72                                 | 53<br>73 74      | 54<br>75 76                | 55<br>77                 | 56<br>78                                      | 57<br>79                                  | 58<br>80                        | 59<br>81 82                  | 60<br>83                                |

Reduction Section

Coding Section

National Accident Sampling System - Continuous Sampling Subsystem: Vehicle Data

INTERIOR ITEMS

61. Vehicle Identification Number

- No VIN Code all zeros
- Unknown Code all nines
- Left justify
- Slash zeros 0

84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

62. Registration of Vehicle

- (0) Not registered
- (1) In state (at least)
- (2) Out-of-state (only)
- (8) Other registration (e.g. federal, foreign, military)
- (9) Unknown

101

63. Vehicle Special Use (this trip)

- (0) No special use
- (1) Taxi
- (2) Vehicle used as school bus
- (3) Vehicle used as other bus
- (4) Military
- (5) Police
- (6) Ambulance
- (7) Fire
- (9) Unknown

102

64. Odometer Reading

- \_\_\_\_\_ miles Code mileage to the nearest 1,000 miles
- (000) No odometer
  - (001) Less than 1,500 miles
  - (997) 996,500 miles or more
  - (999) Unknown

103 104 105

65. Passenger Compartment Integrity

- (0) No passenger compartment
- (1) No integrity loss
- Yes, integrity was lost through
- (2) Windshield
- (3) Door (side)
- (4) Door (rear)
- (5) Roof
- (6) Windshield and door (side)
- (7) Other combination of above
- \_\_\_\_\_
- (9) Unknown

106

66. Passenger Compartment Intrusion (NOTE: Code the area in terms of the most severe intrusion.)

- (0) No passenger compartment
- (1) No intrusion
- (2) Front (i.e., steering column, dash)
- (3) Right side (i.e., door[s] with or without sill override)
- (4) Left side (i.e., door[s] with or without sill override)
- (5) Rear (i.e., trunk, rear seat intruded upon)
- (6) Bottom (i.e., floor)
- (7) Top (i.e., windshield, "A", "B", "C" or "D" pillar[s], roof)
- (8) Two or more areas
- (9) Unknown

107

67. Magnitude of Intrusion

- (0) No intrusion
- (1) Less than five centimeters
- (2) Between five and fifteen centimeters
- (3) Greater than fifteen centimeters
- (9) Unknown

108

68. Fire Occurrence

- (0) No fire
- Yes, fire occurred
- (1) Started in vehicle, minor
- (2) Started in vehicle, major
- (3) Started external to vehicle, minor
- (4) Started external to vehicle, major
- (5) Origin unknown
- (9) Unknown

109

| RESTRAINT SYSTEM |                     | Front Seat Left | Front Seat Middle | Front Seat Right | Second Seat Left | Second Seat Middle | Second Seat Right | Third Seat Left | Third Seat Middle | Third Seat Right | Other Position or Unit* |
|------------------|---------------------|-----------------|-------------------|------------------|------------------|--------------------|-------------------|-----------------|-------------------|------------------|-------------------------|
| MANUAL           | Availability        | _____           | _____             | _____            | _____            | _____              | _____             | _____           | _____             | _____            | _____                   |
|                  | Indication of Usage | _____           | _____             | _____            | _____            | _____              | _____             | _____           | _____             | _____            | _____                   |
| AUTO MATIC       | Availability        | _____           | _____             | _____            | _____            | _____              | _____             | _____           | _____             | _____            | _____                   |
|                  | Function            | _____           | _____             | _____            | _____            | _____              | _____             | _____           | _____             | _____            | _____                   |

- |  |  |  |  |
|--|--|--|--|
| <p>Manual Restraint System - Availability -</p> <ul style="list-style-type: none"> <li>___ (0) None available</li> <li>___ (1) Shoulder belt</li> <li>___ (2) Lap belt</li> <li>___ (3) Lap and shoulder belt</li> <li>___ (4) Motorcycle helmet</li> <li>___ (5) Child safety seat (designed without tether or unknown design)</li> <li>___ (6) Child safety seat (designed with tether - properly installed)</li> <li>___ (7) Child safety seat (designed with tether - improperly installed)</li> <li>___ (8) Restraint available type unknown or other</li> <li>___ (9) Unknown</li> </ul> | <p>Manual Restraint System - Indication of Usage</p> <ul style="list-style-type: none"> <li>___ (0) None used</li> <li>___ (1) Shoulder belt</li> <li>___ (2) Lap belt</li> <li>___ (3) Lap and shoulder belt</li> <li>___ (4) Motorcycle helmet</li> <li>___ (5) Child safety seat - used properly</li> <li>___ (6) Child safety seat - used improperly</li> <li>___ (7) Child safety seat - unknown if used properly</li> <li>___ (8) Restraint used-type unknown or other</li> <li>___ (9) Unknown</li> </ul> | <p>Automatic (Passive) Restraint System - Availability -</p> <ul style="list-style-type: none"> <li>___ (0) Not equipped</li> <li>___ (1) Airbag</li> <li>___ (2) Airbag disconnected</li> <li>___ (3) Airbag not reinstalled</li> <li>___ (4) Two point automatic belts</li> <li>___ (5) Three point automatic belts</li> <li>___ (6) Automatic belts destroyed</li> <li>___ (9) Unknown</li> </ul> | <p>Automatic (Passive) Restraint System - Function -</p> <ul style="list-style-type: none"> <li>___ (0) Not equipped</li> <li>___ (1) Automatic belt in use</li> <li>___ (2) Automatic belt not in use</li> <li>___ (3) Deployed airbag</li> <li>___ (4) Non-deployed airbag</li> <li>___ (9) Unknown</li> </ul> |
|--|--|--|--|

\*Specify the Other Position of Unit referenced \_\_\_\_\_

INDICATIONS of EJECTION

\_\_\_ No ejection

- Ejection Area
- \_\_\_ Windshield
  - \_\_\_ Left front
  - \_\_\_ Right front
  - \_\_\_ Left rear
  - \_\_\_ Right rear
  - \_\_\_ Rear

- \_\_\_ Roof
- \_\_\_ Other area (e.g., sidecar, back of pickup, etc.)
- \_\_\_ Unknown

*If ejection is suspected or reported, indicate the avenue for multiple avenues number them and utilize the same numbers consistently throughout.*

- Ejection Medium
- \_\_\_ Door (side)
  - \_\_\_ Door (rear)
  - \_\_\_ Open roof structure
  - \_\_\_ Fixed windows
  - \_\_\_ Other medium type
  - \_\_\_ Unknown

Medium Status

- \_\_\_ Open
  - \_\_\_ Separation
  - \_\_\_ Closed, closed when damaged
  - \_\_\_ Integral structure ripped opened
  - \_\_\_ Status unknown
- Operable windows
- \_\_\_ Roll down type
  - \_\_\_ Hinged type
  - \_\_\_ Sliding type
  - \_\_\_ Other type window

CHECK ALL AREAS of SUSPECTED OCCUPANT CONTACT

FRONT

- \_\_\_ Windshield
- \_\_\_ Mirror
- \_\_\_ Steering assembly, including transmission selector level when column mounted
- \_\_\_ Add-on equipment (e.g., CB, tape deck, air conditioner)
- \_\_\_ Instrument panel and below, excluding foot controls and parking brake
- \_\_\_ Sunvisor
- \_\_\_ Other front object

SIDE

- \_\_\_ Side interior surface, excluding hardware or armrests
- \_\_\_ Side hardware or armrests
- \_\_\_ A pillar
- \_\_\_ B pillar
- \_\_\_ Other pillar
- \_\_\_ Window glass or frame
- \_\_\_ Other side object

INTERIOR

- \_\_\_ Seat, back support
- \_\_\_ Belt restraint system
- \_\_\_ Head restraint
- \_\_\_ Air cushion
- \_\_\_ Other occupants
- \_\_\_ Interior loose objects
- \_\_\_ Other interior object

ROOF

- \_\_\_ Front header
- \_\_\_ Rear header
- \_\_\_ Roof side rails
- \_\_\_ Roof or convertible top

FLOOR

- \_\_\_ Floor
- \_\_\_ Floor or console mounted transmission lever, including console
- \_\_\_ Parking brake handle
- \_\_\_ Foot controls including parking brake

REAR

- \_\_\_ Backlight (rear window)
- \_\_\_ Backlight storage rack, door, etc.
- \_\_\_ Other rear objects

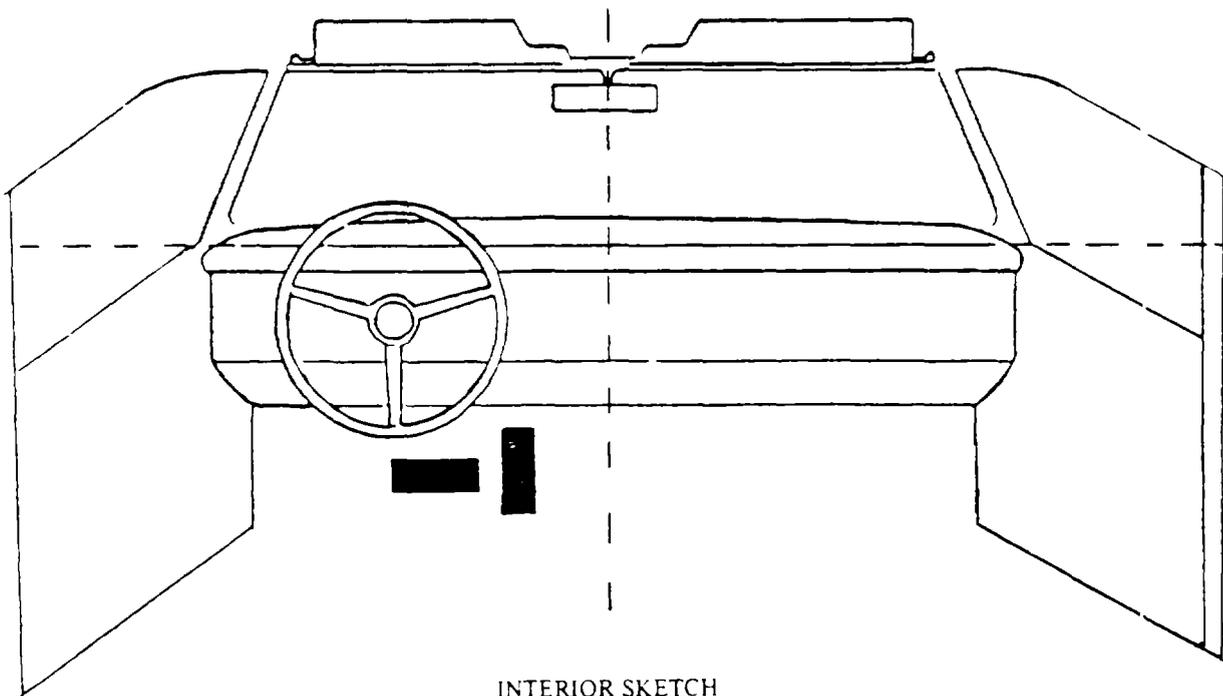
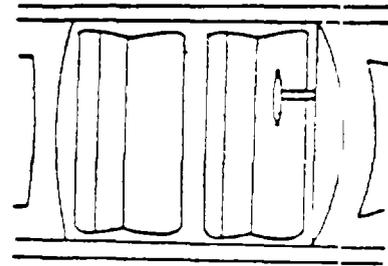
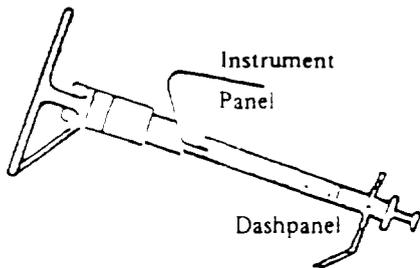
EXTERIOR of OCCUPANT'S VEHICLE

- \_\_\_ Hood
- \_\_\_ Outside hardware (e.g., outside mirror, antenna)
- \_\_\_ Other exterior surface or tires
- \_\_\_ Unknown exterior objects

VEHICLE INTERIOR  
POINTS OF OCCUPANT CONTACT

| CONTACT | INTERIOR PART CONTACTED | SUPPORTIVE PHYSICAL EVIDENCE | Confidence Level of Contact Point |
|---------|-------------------------|------------------------------|-----------------------------------|
| A       |                         |                              | 1 2                               |
| B       |                         |                              | 1 2                               |
| C       |                         |                              | 1 2                               |
| D       |                         |                              | 1 2                               |
| E       |                         |                              | 1 2                               |
| F       |                         |                              | 1 2                               |
| G       |                         |                              | 1 2                               |
| H       |                         |                              | 1 2                               |

If Additional Contact Points, Continue on Reverse Side



INTERIOR SKETCH

Sketch controls in appropriate positions, if contacted. Sketch and describe all occupant contact points (i.e. dents, skin transfer, etc.) and code on preceding page. Dash lines indicate center of instrument panel-windshield area and top of panel for reference purposes.

Codes for Confidence Level of Contact Point are Certain - 1, and possible - 2

National Accident Sampling System – Continuous Sampling Subsystem: Vehicle Data

| SUPPLEMENTAL ITEMS   |  |
|--|--|
| <p>69 Type of Most Severe Impact This Vehicle<br/>This Vehicle's role</p> <p>___ (0) Nonimpact<br/>___ (1) Front of this vehicle<br/>___ (2) Left side of this vehicle<br/>___ (3) Right side of this vehicle<br/>___ (4) Rear of this vehicle<br/>___ (5) Other impact location<br/>___ (9) Unknown impact type</p> <p style="text-align: right;">110</p>   | <p>73 Submission of Potential Safety Problem Bulletin</p> <p>___ (0) No<br/>___ (1) Yes</p> <p style="text-align: right;">114</p> <p>74 Hazardous Cargo</p> <p>___ (0) No hazardous cargo<br/>___ (1) Load of hazardous materials only<br/>___ (2) Load of hazardous and nonhazardous materials<br/>___ (9) Unknown</p> <p style="text-align: right;">115</p> <p>NOTE (See coding manual for definition and examples of hazardous materials)</p>   |
| VEHICLE WEIGHT ITEMS   |  |
| <p>70 Role of Other Contacted Vehicle, Object or Person (for same impact as above)</p> <p>___ (0) Nonimpact<br/>___ (1) Front of other vehicle<br/>___ (2) Side of other vehicle<br/>___ (3) Rear of other vehicle<br/>___ (4) Intraunit damage<br/>___ (5) Other location on other vehicle<br/>___ (6) Object (stationary and non stationary)<br/>___ (7) Pedestrian or nonmotorist<br/>___ (8) Motorcycle or moped<br/>___ (9) Unknown impact type</p> <p style="text-align: right;">111</p> <p>71 Rollover</p> <p>___ (0) No rollover<br/>___ (1) Rollover, less than 4 quarter turns<br/>___ (2) Rollover, 4 or more quarter turns<br/>___ (3) Rollover, details unknown</p> <p style="text-align: right;">112</p> <p>72. Jackknife</p> <p>___ (0) Not an articulated vehicle<br/>___ (1) No<br/>___ (2) Yes</p> <p style="text-align: right;">113</p> | <p>75. Vehicle Curb Weight</p> <p>_____ pounds – Code weight to nearest 100 pounds.</p> <p>___ (001) Less than 150 pounds.<br/>___ (997) 99,650 lbs or more<br/>___ (999) Unknown</p> <p style="text-align: right;">116 117 118</p> <p>Source _____</p> <p>76. Vehicle Cargo Weight</p> <p>_____ pounds – Code weight to nearest 100 pounds</p> <p>___ (000) Less than 50 pounds<br/>___ (997) 99,650 lbs or more<br/>___ (999) Unknown</p> <p style="text-align: right;">119 120 121</p> <p>77 Investigator Reported Source of Cargo Weight</p> <p>___ (0) No cargo<br/>___ (1) Measured<br/>___ (2) Estimated<br/>___ (3) Rated capacity<br/>___ (9) Unknown: source or weight</p> <p style="text-align: right;">122</p> |
| COMMENTS   |  |

LOG RESPONSES

Key to Vehicle Documentation

17 Damage Measurements

- (1) Complete – All applicable field measurements (post-crash measurements: direct and induced damage, C-measurements, maximum crush, shifting, bowing, intrusion damage description, wheel steer angles, etc.) are documented using standard investigative techniques
- (2) Partial – Only relevant field measurements are documented, measurements are incomplete or incorrect
- (3) Incomplete – Vehicle documentation is poor. Field measurements are obviously incorrect and/or incomplete
- (4) Vehicle not inspected or catastrophic conditions.
- (5) Not required

18 Original Dimensions

- (1) Complete – All original dimensions (overall length, maximum width, wheelbase measurements, front and rear overhangs, undeformed end width, etc.) are documented
- (2) Partial – Only relevant dimensions are documented, measurements are incomplete or incorrect
- (3) Incomplete – The majority of relevant dimensions are excluded
- (4) Vehicle not inspected
- (5) Not available/unable to obtain

19 Areas of Contact

- (1) Complete – All damaged areas are documented and annotated (i.e., all impact-related damage, previous damage, damage from towtruck, Jaws of Life, etc)
- (2) Partial – Only relevant impact areas are documented. Previous or unexplained damage not annotated
- (3) Incomplete – Obvious impact-related damage overlooked or incomplete documentation of damage
- (4) Vehicle not inspected or catastrophic conditions

20 Occupant Contacts

- (0) No evidence of occupant contact
- (1) Complete – All occupant contacts and/or suspected contact points are sketched and described
- (2) Partial – Only obvious contact points are documented, suspected contact points are not noted
- (3) Incomplete – Obvious occupant contact points are not documented
- (4) Vehicle not inspected.
- (5) Vehicle interior not inspected

NOTE Access to vehicle interior should be taken into consideration.



| COMPLETED BY TEAM |                              |                                     |                      |
|-------------------|------------------------------|-------------------------------------|----------------------|
| 1                 | Primary Sampling Unit Number |                                     | <u>1</u> <u>2</u>    |
| 2                 | Case Number - Stratification | <u>3</u> <u>4</u> <u>5</u> <u>6</u> |                      |
| 3                 | Record Number                |                                     | <u>3</u><br><u>7</u> |
| 4                 | Transaction Code             |                                     | <u>8</u>             |
| 5                 | Version Number               |                                     | <u>6</u><br><u>9</u> |
| 6                 | Investigator I.D. Number     |                                     | <u>10</u>            |

| VEHICLE INSPECTION |   |   |                     |
|--------------------|---|---|---------------------|
| 7                  | Vehicle Number  |   | <u>11</u> <u>12</u> |
| 8                  | Reason Vehicle Registration Records are not obtainable                |   |                     |
|                    | (0) Not required-vehicle inspected                                    |   |                     |
|                    | (1) Records obtained  |   |                     |
|                    | (2) Hit & Run vehicle-no information                                  |   |                     |
|                    | (3) Records not found   |   |                     |
|                    | (4) Vehicle not registered  |   |                     |
|                    | (5) Registration number incorrect                                     |   |                     |
|                    | (6) No information on vehicle   |   |                     |
|                    | (7) Out of state or foreign registration                              |   |                     |
|                    | (8) To be updated   |   |                     |
|                    | (9) Record not received before file closed                            |   | <u>13</u>           |
| 9                  | Date vehicle inspected and field data elements obtained               | <u>14</u> <u>15</u> <u>16</u> <u>17</u> <u>8</u> <u>3</u> | <u>18</u> <u>19</u> |
| 10                 | Completing Person   |   | <u>20</u>           |
| 11                 | Reason Vehicle Inspection Not Completed                               |   |                     |
|                    | (00) Not required   |   |                     |
|                    | (01) Inspection completed   |   |                     |
|                    | (02) Vehicle can not be located                                       |   |                     |
|                    | (03) Vehicle repaired or destroyed                                    |   |                     |
|                    | (04) Vehicle outside of study area                                    |   |                     |
|                    | (05) Vehicle impounded  |   |                     |
|                    | (06) Vehicle sold   |   |                     |
|                    | (07) Hit and run vehicle  |   |                     |
|                    | (08) Owner could not be located                                       |   |                     |
|                    | (09) Owner refusal  |   |                     |
|                    | (10) Insurance company refusal  |   |                     |
|                    | (11) Attorney refusal or litigation                                   |   |                     |
|                    | (12) Repair or tow facility refusal                                   |   |                     |
|                    | (13) Stolen   |   |                     |
|                    | (14) Wrong name and address on PAR                                    |   |                     |
|                    | (15) Interstate truck   |   |                     |
|                    | (16) Commercial vehicle unavailable                                   |   |                     |
|                    | (17) Other _____  |   | <u>21</u> <u>22</u> |
| 12                 | Reason Highest Total Delta V Unknown                                  |   |                     |
|                    | (1) Highest total delta V known - based on damage data only           |   |                     |
|                    | (2) Highest total delta V known - based on damage and trajectory data |   |                     |
|                    | (3) Rollover  |   |                     |
|                    | (4) Other: nonhorizontal force (e.g., vaulting)                       |   |                     |
|                    | (5) Sideswipe type damage/severe overrides                            |   |                     |
|                    | (6) Vehicle out of scope/pedestrian                                   |   |                     |
|                    | (7) Yielding object   |   |                     |
|                    | (8) Other (e.g., animal) _____  |   |                     |
|                    | (9) Insufficient data   |   | <u>23</u>           |
| 13                 | Confidence in CRASH Results (for Highest Delta V)                     |   |                     |
|                    | (0) No CRASH  |   |                     |
|                    | (1) Collision fits model results appear reasonable                    |   |                     |
|                    | (2) Collision fits model-results appear high                          |   |                     |
|                    | (3) Collision fits model-results appear low                           |   |                     |
|                    | (4) Boderline reconstruction-results appear reasonable                |   | <u>24</u>           |

|    |  |  |                     |
|----|--|--|---------------------|
| 14 | CRASH Output on Other than Highest Delta V   |  |                     |
|    | ___ (0) No-CRASH output for highest delta V or no CRASH run  |  |                     |
|    | ___ (1) Yes-CRASH run on a secondary CDC   |  | <u>25</u>           |
| 15 | DATA OBTAINED FOR THIS VEHICLE'S MOST SEVERE IMPACT REGARDLESS OF USAGE                                    |  |                     |
|    | (00) No data obtained  |  |                     |
|    | (01) CDC only  |  |                     |
|    | (02) TDC only  |  |                     |
|    | (03) Crush profile* only (outside scope of CDC/TDC)  |  |                     |
|    | (04) Trajectory data only  |  |                     |
|    | (05) CDC and crush profile only  |  |                     |
|    | (06) TDC and crush profile only  |  |                     |
|    | (07) CDC and trajectory  |  |                     |
|    | (08) TDC and trajectory  |  |                     |
|    | (09) Crush profile* (outside scope of CDC/TDC) and trajectory  |  |                     |
|    | (10) CDC, crush profile and trajectory   |  |                     |
|    | (11) TDC, crush profile and trajectory   |  | <u>26</u> <u>27</u> |
|    | *For vehicles outside the scope of CDC/TDC, crush profile means damage sketch and applicable measurements. |  |                     |

| COMPLETED BY ZONE CENTER                              |  |   |                     |
|---|--|---|---------------------|
| (See back of page 8 for responses to questions 17-20) |  |   |                     |
| 16  | Were Measuring Stands Used                               |   |                     |
|   | ___ (1) No-stands omitted or incorrectly placed          |   |                     |
|   | ___ (2) Yes-stands correctly used                        |   |                     |
|   | ___ (3) Vehicle not inspected or catastrophic conditions |   |                     |
|   | ___ (4) Stands not required                              |   | <u>28</u>           |
| 17  | Damage Measurements                                      |   |                     |
|   | ___ (1) Complete   |   |                     |
|   | ___ (2) Partial  |   |                     |
|   | ___ (3) Incomplete                                       |   |                     |
|   | ___ (4) Vehicle not inspected or catastrophic conditions |   |                     |
|   | ___ (5) Not required                                     |   | <u>29</u>           |
| 18  | Original Dimensions                                      |   |                     |
|   | ___ (1) Complete   |   |                     |
|   | ___ (2) Partial  |   |                     |
|   | ___ (3) Incomplete                                       |   |                     |
|   | ___ (4) Vehicle not inspected                            |   |                     |
|   | ___ (5) Not available/unable to obtain                   |   | <u>30</u>           |
| 19  | Areas of Contact   |   |                     |
|   | ___ (1) Complete   |   |                     |
|   | ___ (2) Partial  |   |                     |
|   | ___ (3) Incomplete                                       |   |                     |
|   | ___ (4) Vehicle not inspected or catastrophic conditions |   | <u>31</u>           |
| 20  | Occupants Contacts                                       |   |                     |
|   | ___ (0) No evidence of occupant contact                  |   |                     |
|   | ___ (1) Complete   |   |                     |
|   | ___ (2) Partial  |   |                     |
|   | ___ (3) Incomplete                                       |   |                     |
|   | ___ (4) Vehicle not inspected                            |   |                     |
|   | ___ (5) Vehicle interior not inspected                   |   | <u>32</u>           |
| 21  | Date Official Record Update Received                     | <u>33</u> <u>34</u> <u>35</u> <u>36</u> <u>8</u> <u>3</u> | <u>37</u> <u>38</u> |
| 22  | Reviewed By  |   | <u>39</u> <u>40</u> |



VEHICLE FOR NON-TOWAWAY ACCIDENT

|  |  |
|--|--|
| <p>1 Primary Sampling Unit Number <span style="float:right">1 2</span></p> <p>2 Case Number - Stratification <span style="float:right">3 4 5 6</span></p> <p>3 Record Number <span style="float:right">3<br/>7</span></p> <p>4 Transaction Code <span style="float:right">8</span></p> <p>5 Version Number <span style="float:right">6<br/>9</span></p> <p>6 Investigator I.D. Number <span style="float:right">10</span></p>  | <p>14 Body Type</p> <p><i>Automobiles</i></p> <p>___ (01) Convertible (excludes sun-roof, t-bar)</p> <p>___ (02) 2-door sedan, hardtop, coupe</p> <p>___ (03) 3-door/2-door hatchback</p> <p>___ (04) 4-door sedan hardtop</p> <p>___ (05) 5-door 4-door hatchback</p> <p>___ (06) Station wagon (excluding van and truck based)</p> <p>___ (08) Other automobile type</p> <p>___ (09) Unknown automobile type</p> <p><i>Automobile Derivatives and Short Utility Vehicles</i></p> <p>___ (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat)</p> <p>___ (11) Auto based panel (cargo station wagon, includes auto based ambulance/hearse)</p> <p>___ (12) Short utility - not truck based (includes Jeep CJ-5, Jeep CJ-7, Renegade, Landrover, Pre-78 Bronco, Landcruiser, Thing)</p> <p>___ (13) Large limousine - more than four side doors or stretched chassis</p> <p><i>Motorcycles</i></p> <p>___ (20) Motorcycle</p> <p>___ (21) Mopeds (motorized bicycles)</p> <p>___ (28) Other motorcycle (minibikes, motorscooters)</p> <p>___ (29) Unknown motorcycle type</p> <p><i>Bus (excludes van based)</i></p> <p>___ (30) School bus (designed to carry students, not cross country or transit)</p> <p>___ (31) Cross country/intercity (designed for long distance)</p> <p>___ (32) Transit bus (includes short ride city bus and medium range suburban bus)</p> <p>___ (38) Other bus (e.g., bus based motorhome)</p> <p>___ (39) Unknown bus type</p> <p><i>Van Based Light Truck (&lt;= 10,000 lbs GVWR)</i></p> <p>___ (40) Van (includes VW bus, Vanagon, Kombi, Beauville, Chateau, Club Wagon, Sportsman, excludes moving van)</p> <p>___ (41) Van-commercial cutaway (includes box van, multi-stop, parcel, van pickups)</p> <p>___ (42) Van based motorhome</p> <p>___ (48) Other van type</p> <p>___ (49) Unknown van type</p> <p><i>Light Conventional Truck (Pickup style cab, &lt;= 10,000 lbs. GVWR)</i></p> <p>___ (50) Pickup (includes open box and caps)</p> <p>___ (51) Pickup with slide-in camper</p> <p>___ (52) Pickup based motorhome (chassis mounted)</p> <p>___ (53) Cab chassis based (includes rescue vehicles, light stake, dump, and tow trucks)</p> <p>___ (54) Truck based panel</p> <p>___ (55) Truck based station wagon (4-door, includes Suburban, Travelall, Wagoneer)</p> <p>___ (56) Truck based utility (2-door, includes Blazer, Bronco - 78 on, Jimmy, Ramcharger, Cherokee, Trailduster, Scout)</p> <p>___ (58) Other light conventional truck (e.g., stretched Suburban limousine)</p> <p>___ (59) Unknown light conventional truck</p> <p>___ (69) Unknown light truck (van or pickup)</p> <p><i>Medium/Heavy Truck (&gt; 10,000 lbs GVWR)</i></p> <p>___ (70) Step vans</p> <p>___ (71) Single unit straight truck (10,000 lbs &lt; GVWR &lt;= 26,000 lbs.)</p> <p>___ (72) Single unit straight truck (&gt; 26,000 lbs. GVWR)</p> <p>___ (73) Medium/heavy truck based motorhome</p> <p>___ (74) Truck-tractor with no cargo trailer</p> <p>___ (75) Truck-tractor pulling one or more trailers</p> <p>___ (77) Truck-tractor (unknown if pulling trailer)</p> <p>___ (78) Unknown medium/heavy truck type</p> <p>___ (79) Unknown truck type (light/medium/heavy)</p> <p><i>Other Vehicles</i></p> <p>___ (80) Snowmobile</p> <p>___ (81) Farm equipment other than trucks</p> <p>___ (82) ATV all terrain vehicle (e.g., dune/swamp buggy)</p> <p>___ (83) Construction equipment other than trucks (e.g., grader, off road)</p> <p>___ (88) Other (e.g., go cart, fork lift, city street sweeper)</p> <p>___ (89) Unknown other vehicle</p> <p>___ (99) Unknown body type</p> |
| <b>IDENTIFICATION</b>  |  |
| <p>7 Vehicle Number <span style="float:right">11 12</span></p> <p>8 Number of Occupant Forms Submitted</p> <p>___ Code only the number of occupants in this vehicle for which an OCCUPANT FORM was submitted</p> <p>___ (97) 97 or more <span style="float:right">13 14</span></p> <p>9 Vehicle Role</p> <p>___ (0) Noncollision</p> <p>___ (1) Striking unit</p> <p>___ (2) Struck unit</p> <p>___ (3) Both striking and struck</p> <p>___ (9) Unknown <span style="float:right">15</span></p> <p>10 Manner of Leaving Scene (Determined by Investigator)</p> <p>___ (1) Driven</p> <p>___ (2) Towed - due to vehicle damage</p> <p>___ (3) Towed - not due to vehicle damage</p> <p>___ (4) Abandoned</p> <p>___ (9) Unknown <span style="float:right">16</span></p> |  |
| <b>EXTERIOR ITEMS</b>  |  |
| <p>11 Vehicle Model Year</p> <p>___ Code the last two digits of the model year</p> <p>___ (99) Unknown <span style="float:right">17 18</span></p> <p>12 Vehicle Make</p> <p>___</p> <p>Applicable codes are found in your NASS Data Collection, Coding and Editing Manual</p> <p>___ (99) Unknown <span style="float:right">19 20</span></p> <p>13 Vehicle Model</p> <p>___</p> <p>Applicable codes are found in your NASS Data Collection, Coding and Editing Manual</p> <p>___ (00) Unknown</p> <p>___ (69) Unknown (motorcycle)</p> <p>___ (79) Unknown (light truck)</p> <p>___ (89) Unknown (truck)</p> <p>___ (99) Unknown (automobile) <span style="float:right">21 22</span></p>   |  |
|  | 23 24  |

NON-TOWAWAY VEHICLE LOG

| COMPLETED BY TEAM  |   |                          |
|--|---|--------------------------|
| <p>1 Primary Sampling Unit Number <span style="float:right">1 2</span></p> <p>2 Case Number - Stratification <span style="float:right">3 4 5 6</span></p> <p>3 Record Number <span style="float:right">3 7</span></p> <p>4 Transaction Code <span style="float:right">8</span></p> <p>5 Version Number <span style="float:right">6 9</span></p> <p>6 Investigator I.D. Number <span style="float:right">10</span></p>  | <p>9 Date vehicle inspected and field data elements obtained <span style="float:right">0 0 0 0 8 3<br/>14 15 16 17 18 19</span></p> <p>10 Completing Person <span style="float:right">0<br/>20</span></p> <p>11 Reason Vehicle Inspection Not Completed</p> <p>(00) Not required</p> <p>(01) Inspection completed</p> <p>(02) Vehicle can not be located</p> <p>(03) Vehicle repaired or destroyed</p> <p>(04) Vehicle outside of study area</p> <p>(05) Vehicle impounded</p> <p>(06) Vehicle sold</p> <p>(07) Hit and run vehicle</p> <p>(08) Owner could not be located</p> <p>(09) Owner refusal</p> <p>(10) Insurance company refusal</p> <p>(11) Attorney refusal or litigation</p> <p>(12) Repair or tow facility refusal</p> <p>(13) Stolen</p> <p>(14) Wrong name and address on PAR</p> <p>(15) Interstate truck</p> <p>(16) Commercial vehicle unavailable</p> <p>(17) Other: _____ <span style="float:right">0 0<br/>21 22</span></p> |                          |
| VEHICLE INSPECTION   |   |                          |
| <p>7 Vehicle Number <span style="float:right">11 12</span></p> <p>8 Reason Vehicle Registration Records are not obtainable</p> <p>(0) Not required—vehicle inspected</p> <p>(1) Records obtained</p> <p>(2) Hit &amp; Run vehicle—no information</p> <p>(3) Records not found</p> <p>(4) Vehicle not registered</p> <p>(5) Registration number incorrect</p> <p>(6) No information on vehicle</p> <p>(7) Out of state or foreign registration</p> <p>(8) To be updated</p> <p>(9) Record not received before file closed <span style="float:right">13</span></p> | <th style="text-align: center;">COMPLETED BY ZONE CENTER</th> <p>21. Date Official Record Update Received <span style="float:right">8 3<br/>33 34 35 36 37 38</span></p> <p>22. Reviewed By <span style="float:right">39 40</span></p>  | COMPLETED BY ZONE CENTER |

-STOP FORM COMPLETE-

This vehicle is from an accident sampled in the Nontowaway strata "Y" or "Z"

Neither the inspection nor photographs of this vehicle are required.



NON-TOWAWAY VEHICLE LOG

| COMPLETED BY TEAM   |  |
|---|--|
| <p>1. Primary Sampling Unit Number <span style="float: right;">1 2</span></p> <p>2. Case Number - Stratification <span style="float: right;">3 4 5 6</span></p> <p>3. Record Number <span style="float: right;">3 7</span></p> <p>4. Transaction Code <span style="float: right;">1</span></p> <p>5. Version Number <span style="float: right;">6 9</span></p> <p>6. Investigator I.D. Number <span style="float: right;">10</span></p>   | <p>9. Date vehicle inspected and field data elements obtained <span style="float: right;">0 0 0 0 8 3<br/>14 15 16 17 18 19</span></p> <p>10. Completing Person <span style="float: right;">0<br/>20</span></p> <p>11. Reason Vehicle Inspection Not Completed</p> <ul style="list-style-type: none"> <li>(00) Not required</li> <li>(01) Inspection completed</li> <li>(02) Vehicle can not be located</li> <li>(03) Vehicle repaired or destroyed</li> <li>(04) Vehicle outside of study area</li> <li>(05) Vehicle impounded</li> <li>(06) Vehicle sold</li> <li>(07) Hit and run vehicle</li> <li>(08) Owner could not be located</li> <li>(09) Owner refusal</li> <li>(10) Insurance company refusal</li> <li>(11) Attorney refusal or litigation</li> <li>(12) Repair or tow facility refusal</li> <li>(13) Stolen</li> <li>(14) Wrong name and address on PAR</li> <li>(15) Interstate truck</li> <li>(16) Commercial vehicle unavailable</li> <li>(17) Other <span style="float: right;">0 0<br/>21 22</span></li> </ul> |
| VEHICLE INSPECTION  |  |
| <p>7. Vehicle Number <span style="float: right;">11 12</span></p> <p>8. Reason Vehicle Registration Records are not obtainable</p> <ul style="list-style-type: none"> <li>(0) Not required—vehicle inspected</li> <li>(1) Records obtained</li> <li>(2) Hit &amp; Run vehicle—no information</li> <li>(3) Records not found</li> <li>(4) Vehicle not registered</li> <li>(5) Registration number incorrect</li> <li>(6) No information on vehicle</li> <li>(7) Out of state or foreign registration</li> <li>(8) To be updated</li> <li>(9) Record not received before file closed <span style="float: right;">13</span></li> </ul> | <p style="text-align: center;">COMPLETED BY ZONE CENTER</p> <p>21. Date Official Record Update Received <span style="float: right;">8 3<br/>33 34 35 36 37 38</span></p> <p>22. Reviewed By <span style="float: right;">39 40</span></p>   |

-STOP FORM COMPLETE-

This vehicle is from an accident sampled in the Nontowaway strata "Y" or "Z".

Neither the inspection nor photographs of this vehicle are required.

## APPENDIX B

### CODING INFORMATION FOR VEHICLE MAKE/MODEL

The primary source of information on vehicle make and model is vehicle inspection; the VIN provides vehicle make data. Secondary sources include the police report, interviewees and vehicle registration.

If the make of the vehicle is known, but if it is not known whether or not the vehicle was a passenger car, a truck, or motorcycle, then Vehicle Model is coded as "00" (Unknown).

If the make of the vehicle is not known (e.g., a hit-and-run vehicle), then Vehicle Make is "99" (Unknown), and Vehicle Model is coded "00" (Unknown). However, if the make of the vehicle is not known but the vehicle is known to be an automobile (e.g., from police report or interviewees), Vehicle Model is coded "99" (Unknown (automobile)).

Vehicle models are organized into general groups. These groups are:

- 01-28, 99 - domestic passenger car (automobile)
- 31-58, 99 - foreign passenger car (automobile)
- 60-69 - motored cycles (including motorcycles, mini-bikes motor scooters, dirt bikes, and mo-peds)
- 70-79 - light trucks (including truck based utility vehicles, light duty pickup trucks, standard pickup trucks, vans, van based station wagons, van based buses, van derivatives, and truck based station wagons)
- 80-90 - trucks and buses [includes all trucks over 10,000 lbs. GVWR except those pickup type trucks mentioned under Body Type (V14) code "50" (Pickup), and all buses except those that are van based]

Within these groups, the model codes for automobiles and light trucks generally are not ordered to give any indication of vehicle size or type. However, the model codes for motored cycles, trucks/buses, other and unknown have specific definition. These definitions are:

Motored Cycle

|    |               |
|----|---------------|
| 61 | 0-50cc        |
| 62 | 51-124cc      |
| 63 | 125-349cc     |
| 64 | 350-449cc     |
| 65 | 450-749cc     |
| 66 | 750cc or over |
| 69 | Unknown cc    |

APPENDIX C  
FILE ADJUSTMENTS

Source Documents Only (SDO):

Occasionally accident investigation teams at some primary sampling units (PSU'S) had to be reformulated. This process interrupted normal data collection. Since better national estimates can be obtained from uninterrupted data, data was sought even for nonfunctioning teams. During reformulation, official records, also called source documents, were permitted to be the only data source. Thus either Zone Center staff on temporary assignment or less trained personnel could encode these cases. The SDO derived variable designates them.

Although interviews, scene inspections (after the fact), and vehicle inspections were not required, they were not forbidden. Also some teams were disrupted less than others. Consequently, the extent of these investigations differed from accident to accident. Some data sources such as police reports, driver records, and vehicle registrations were as available for these cases as for any others.

The PSU's where SDO cases were coded are tabulated below. Since police reports for some accidents are not filed immediately, sampling dates for 1983 cases continue into 1984. If not explicitly mentioned, dates are in 1983.

| PSU       | NUMBER OF CASES | SAMPLING DATES | PSU | NUMBER OF CASES | SAMPLING DATES              |
|-----------|-----------------|----------------|-----|-----------------|-----------------------------|
| 1         | 82              | 8/29-12/9      | 51  | 18              | 9/15-9/29                   |
| 2         | 12              | 9/12-9/29      | 54  | 12              | 7/5-7/21                    |
| 3         | 15              | 7/4-7/22       | 56  | 4               | 1/19/84                     |
| 4         | 10              | 7/5-7/21       | 59  | 16              | 9/6-9/30                    |
| 5         | 16              | 7/7- 8/4       | 76  | 17              | 7/28-8/15 and<br>10/24-11/3 |
| 13        | 31              | 5/16-7/29      |     |                 |                             |
| 27        | 5               | 12/12          | 77  | 3               | 1/19/84                     |
| 28        | 12              | 9/12-10/3      | 78  | 10              | 7/4-7/14                    |
| 29        | 6               | 7/11-7/28      | 79  | 64              | 7/5-9/29                    |
| 31        | 24              | 9/13-10/14     | 80  | 15              | 7/5-7/21                    |
| 32        | 15              | 9/12-10/3      | 84  | 20              | 11/21-1/19/84               |
| TOTAL 407 |                 |                |     |                 |                             |

Fatals for PSU 31:

Accidents involving a fatality were excluded from the sample at PSU 31 because of local restrictions. Since the Fatal Accident Reporting System (FARS) included fatalities in this geographic area, an adjustment was needed. Six FARS cases from this area were selected by simple random sampling. They were added to the NASS file as SDO cases bringing the total number of SDO cases to 413. Their case numbers are 601-606.

APPENDIX D

CDC/TDC

This section gives an overview of the Collision Deformation Classification (C.D.C.) for cars, vans, and light trucks, and the Truck Deformation Classification (T.D.C.) for heavy trucks, as implemented in the 1983 NASS. The C.D.C. and T.D.C. take the form of an eight character code in the following order (NOTE: If there is no C.D.C./T.D.C., the eight character code is left blank):

Direction of Force (2-character numerical). Sum of Clock Direction and Incremental Value of Shift if both are known. An unknown value for Direction of force is coded "99".

Clock Direction (C.D.C. or T.D.C.) is coded as follows:

|    |                      |    |                     |
|----|----------------------|----|---------------------|
| 00 | Non-horizontal force | 08 | 8 o'clock           |
| 01 | 1 o'clock            | 09 | 9 o'clock           |
| 02 | 2 o'clock            | 10 | 10 o'clock          |
| 03 | 3 o'clock            | 11 | 11 o'clock          |
| 04 | 4 o'clock            | 12 | 12 o'clock          |
| 05 | 5 o'clock            | 13 | intra-unit<br>force |
| 06 | 6 o'clock            |    | (T.D.C. only)       |
| 07 | 7 o'clock            | 99 | UNKNOWN             |

Incremental Value of Shift (C.D.C. only) i.e., change in direction of the structure as opposed to crushing of the structure. It is coded as follows:

|    |  |
|----|--|
| 00 | No shift                                     |
| 20 | End shift vertical--up; top shift forward    |
| 40 | End shift vertical--down; top shift rearward |
| 60 | End or top shift lateral--right              |
| 80 | End or top shift lateral--left               |
| 99 | Unknown                                      |

Deformation Location (1 character alphanumeric) is coded as follows:

C.D.C

=====

F Front  
R Right side  
L Left side  
B Back (rear)  
T Top  
U Undercarriage  
9 Unknown

T.D.C.

=====

F Front  
R Right side  
L Left side  
B Back of unit with cargo area, rear of trailer or straight truck  
D Back (rear of tractor)  
C Rear of cab  
V Front of cargo area  
T Top  
U Undercarriage  
9 Unknown

Specific Longitudinal or Lateral Location (1 character alphanumeric) is coded as follows:

| C.D.C.<br>=====               | T.D.C<br>=====                                      |
|-------------------------------|---|
| D Distributed--side or end    | D Distributed--side or end                          |
| L Left--front or rear         | L Left--front or rear                               |
| C Center--front or rear       | C Center--front or rear                             |
| R Right--front or rear        | R Right--front or rear                              |
| F Side front--left or right   | F Side front (forward of windshield)                |
| P Side center section--L or R | P Side cab  |
| B Side rear--left or right    | W Side rear of cab to rear of tractor               |
| Y Side (F + P) or end (L + C) | K Side (P + W)                                      |
| Z Side (P + B) or end (C + R) | S Side (F + P + W)                                  |
| 9 Unknown                     | B Side rear of cab to rear of trailer or cargo area |
|                               | T Side trailer (rear of tractor to rear of trailer) |
|                               | Y Side (F + P) or end (L + C)                       |
|                               | Z Side (B + P) or end (R + C)                       |
|                               | 9 Unknown   |

Specific Vertical or Lateral Location (1 character alphanumeric) is coded as follows:

**C.D.C. (Vertical - Front, Rear, or Side Impacts)**  
 =====

|   |
|---|
| A All   |
| T Top of frame to top   |
| E Everything below belt line  |
| G Belt line and above   |
| M Middle--top of frame to belt line or hood                             |
| L Frame--top of frame, frame, bottom of frame (including undercarriage) |
| W Below undercarriage level (wheel and tires only)                      |
| 9 Unknown   |

T.D.C. (Vertical - Front, Rear, or Side Impacts)

=====

A Top of Vehicle to bottom of vehicle exclusive of wheels  
H Top of frame to top of vehicle  
T Everything above cab  
G Belt line and above  
E Belt line and below  
M Middle--top of frame to belt line or hood  
L Low--top of frame, frame, and bottom of frame (including undercarriage)  
W Below undercarriage level (wheel and tires only)  
9 Unknown

C.D.C. or T.D.C. (Lateral - top and Undercarriage Impacts)

=====

D Distributed  
L Left  
C Center  
R Right  
Y Left and Center (L + C)  
Z Right and Center (R + C)  
9 Unknown

Type of Damage Distribution (1 character alphanumeric) is coded as follows:

|   |                           |   |   |
|---|---------------------------|---|---|
| W | Wide impact area          | E | Corner                                  |
| N | Narrow impact area        | K | Conversion in impact type (C.D.C. only) |
| S | Sideswipe                 | U | No residual deformation                 |
| O | Rollover (including side) | R | Override (T.D.C. only)                  |
| A | Overhanging structure     |   |   |
| 9 | Unknown                   |   |   |

Deformation Extent Guide (E character alphanumeric) is coded as follows:

|    |       |    |   |
|----|-------|----|---|
| Q1 | One   | Q8 | Eight                                   |
| Q2 | Two   | Q9 | Nine                                    |
| Q3 | Three | QA | (T.D.C. only) - minor                   |
| Q4 | Four  | QB | (T.D.C. only) - moderate                |
| Q5 | Five  | QC | (T.D.C. only) - severe                  |
| Q6 | Six   | QD | (T.D.C. only) - extremely severe        |
| Q7 | Seven | QX | (T.D.C. only) - cargo/intraunit impacts |
|    |       | 99 | Unknown                                 |

**Delta V.** Delta-V is defined as the vector velocity change during the collision phase of an accident, or in a simple accident, as separation velocity minus approach velocity:

$$\text{DELTA-V} = V \text{ separation} - V \text{ approach}$$

The direction of the vector is determined by the investigator as the direction of principal force. For each vehicle, the components of its Delta-V are obtained by projecting on the longitudinal and lateral axis of that vehicle.

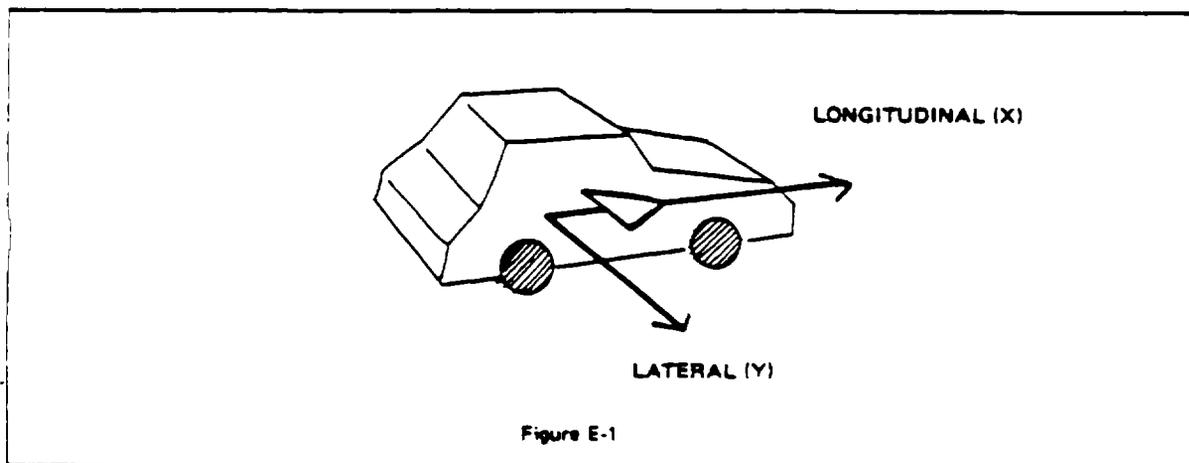


Figure E-1 shows the positive direction of the longitudinal and lateral components of Delta-V. For example, in a head-on collision, a vehicle is decelerated and the initial high positive longitudinal velocity is reduced; thus it will have a negative longitudinal Delta-V.

APPENDIX E  
SELECTED COUNTS

Users of the NASS Analysis file occasionally have requested that the manual include total counts for certain NASS statistics. These counts may help assure that the users are accessing the desired NASS tape. Further, such counts help to identify the source of apparent anomalies.

For this edition of the User's Manual, the following counts have been identified as potentially the most useful:

- . Total Number of Accident Records - 10,996
- . Total Number of Pedestrian Records - 1,208
- . Total Number of Vehicle Records - 17,652
- . Total Number of Driver Records - 17,652
- . Total Number of Occupant Records - 26,332
- . Total Number of Accident Records with neither Occupants nor Pedestrians - 12
- . Total Number of Accident Records with at least One Pedestrian but no Occupants - 1
- . Total Number of Vehicle Records with at least One Occupant but no Driver (i.e., driver not present in vehicle) - 6
- . Total Number of Vehicle records with no Occupant Records - 136